



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>

A CATALOGUE
OF THE
OFFICERS AND STUDENTS
IN THE SEVERAL DEPARTMENTS OF
Washington University,
WITH THE
COURSES OF STUDY
FOR THE
ACADEMIC YEAR 1879-80.

ST. LOUIS,
C. R. BARNES, PRINTER, 215 PINE STREET.
1879.

1880	SUN.	MON.	TUES.	WED.	THUR.	FRI.	SAT.	1880	SUN.	MON.	TUES.	WED.	THUR.	FRI.	SAT.
JAN.	...	...	...	...	1	2	3	JULY	...	...	...	...	1	2	3
	4	5	6	7	8	9	10		4	5	6	7	8	9	10
	11	12	13	14	15	16	17		11	12	13	14	15	16	17
	18	19	20	21	22	23	24		18	19	20	21	22	23	24
	25	26	27	28	29	30	31		25	26	27	28	29	30	31
FEB.	1	2	3	4	5	6	7	AUG.	1	2	3	4	5	6	7
	8	9	10	11	12	13	14		8	9	10	11	12	13	14
	15	16	17	18	19	20	21		15	16	17	18	19	20	21
	22	23	24	25	26	27	28		22	23	24	25	26	27	28
	29	...	...	...	...	...	...		29	30	31	...	...	...	...
MAR.	...	1	2	3	4	5	6	SEPT	...	...	1	2	3	4	...
	7	8	9	10	11	12	13		5	6	7	8	9	10	11
	14	15	16	17	18	19	20		12	13	14	15	16	17	18
	21	22	23	24	25	26	27		19	20	21	22	23	24	25
	28	29	30	31	...	...	...		26	27	28	29	30	...	...
APR.	...	...	...	...	1	2	3	OCT.	...	...	...	...	1	2	...
	4	5	6	7	8	9	10		3	4	5	6	7	8	9
	11	12	13	14	15	16	17		10	11	12	13	14	15	16
	18	19	20	21	22	23	24		17	18	19	20	21	22	23
	25	26	27	28	29	30	...		24	25	26	27	28	29	30
MAY.	...	...	...	...	...	1	...		31	...	...	...	...	...	...
	2	3	4	5	6	7	8	NOV.	...	1	2	3	4	5	6
	9	10	11	12	13	14	15		7	8	9	10	11	12	13
	16	17	18	19	20	21	22		14	15	16	17	18	19	20
	23	24	25	26	27	28	29		21	22	23	24	25	26	27
	30	31	...	...	...	...	...		28	29	30	...	...	...	...
JUNE	...	...	1	2	3	4	5	DEC.	...	...	...	1	2	3	4
	6	7	8	9	10	11	12		5	6	7	8	9	10	11
	13	14	15	16	17	18	19		12	13	14	15	16	17	18
	20	21	22	23	24	25	26		19	20	21	22	23	24	25
	27	28	29	30	...	...	...		26	27	28	29	30	31	...

UNIVERSITY CALENDAR.

1879-80.

EXAMINATION FOR ADMISSION to the College and the Polytechnic School, Wednesday, September 10, 1879.

FIRST TERM begins Thursday, September 11.

LAW SCHOOL opens Wednesday, October 15.

HOLIDAY, THANKSGIVING DAY, Thursday, November 27.

WINTER VACATION, December 24, 1879, to January 4, 1880, inclusive.

SEMI-ANNUAL EXAMINATION, January 19—23.

SECOND TERM begins January 26.

HOLIDAY, February 22, Washington's Birthday.

HOLIDAY, Friday, May 14.

EXAMINATION FOR THE DEGREE OF LL.B., May 31—June 2.

ACADEMY EXHIBITION, Tuesday, June 8.

EXAMINATION of College and Polytechnic Classes, June 1—8.

EXAMINATION FOR ADMISSION to the College and the Polytechnic School, Monday and Tuesday, June 8—9.

LAW COMMENCEMENT, Wednesday, June 9.

COLLEGE AND POLYTECHNIC SCHOOL COMMENCEMENT, Thursday, June 10.

SUMMER VACATION, June 10 to September 16.

1880-81.

EXAMINATION FOR ADMISSION to the College and the Polytechnic School, Wednesday, September 15, 1880.

FIRST TERM begins Thursday, September 16.

LAW SCHOOL opens Wednesday, October 13.

HOLIDAY, THANKSGIVING DAY, ———, ———, ———.

WINTER VACATION, December 24, 1880, to January 2, 1881, inclusive.

SEMI-ANNUAL EXAMINATION, January 24—28.

SECOND TERM begins Monday, January 31.

CORPORATION.

PRESIDENT:

WILLIAM G. ELIOT.

VICE-PRESIDENT:

WAYMAN CROW.

SECRETARY AND TREASURER:

SETH A. RANLETT.

DIRECTORS:

WILLIAM G. ELIOT,	JAMES E. YEATMAN,
WAYMAN CROW,	SAMUEL TREAT,
JOHN M. KRUM,	CARLOS S. GREELEY,
SETH A. RANLETT,	JOHN T. DAVIS,
GEORGE PARTRIDGE,	GEORGE E. LEIGHTON,
JOHN R. SHEPLEY,	EDWIN HARRISON,
ALBERT TODD,	HENRY W. ELIOT,
HENRY HITCHCOCK,	M. DWIGHT COLLIER,
	WM. A. HARGADINE.

OFFICERS

OF

GOVERNMENT AND INSTRUCTION.

RESIDENCE.

- *WM. G. ELIOT, D.D., *Bridge Chancellor, and Tileston Professor of Political Economy*2660 Washington av.
- ABRAM LITTON, M.D., *Eliot Professor of Chemistry*2220 Eugenia st.
- CALVIN S. PENNELL, A.M., *Bridge Professor of Intellectual and Moral Philosophy, and Principal of Mary Institute*.....3692 Baker avenue.
- SYLVESTER WATERHOUSE, A.M., *Collier Professor of Greek*.....1823 Lucas av.
- HENRY HITCHCOCK, LL.D., *Professor of Constitutional and Municipal Law and Equity Jurisprudence and Dean of Law Faculty*1507 Lucas Place.
- SAMUEL TREAT, A.M., *Lecturer on Constitutional and International Law; Jurisdiction and Practice U. S. Courts*.....1114 Pine st.
- ALBERT TODD, A.M., *Lecturer on Conveyancing*3016 Lucas avenue.
- GEORGE A. MADILL, A.M., *Professor of Real Property Law*3119 Chestnut st.
- CALVIN M. WOODWARD, A.M., *Thayer Professor of Mathematics and Applied Mechanics, and Dean of Polytechnic Faculty*..[Geyer aves. Cor. of Missouri and
- GEORGE E. JACKSON, A.M., *Professor of Latin*3658 Washington av.

* See page 14, "Bridge Endowment."

RESIDENCE.

- MARSHALL S. SNOW, A.M., *Professor of History and, Dean of the College Faculty*. 2841 Olive st.
- WM. B. POTTER, A.M., E.M., *Allen Professor of Mining and Metallurgy*.....Wash. University.
- DENHAM ARNOLD, A.M., *Professor of Physics, and Principal of the Academy*....2643 Washington av.
- CHARLES A. SMITH, C.E., *Professor of Civil and Mechanical Engineering*.....415 S. High street.
- CHESTER H. KRUM, A.B., *Professor of the Law of Pleading, Practice and Evidence*.....2732 Washington av.
- JOHN H. JENKS, M.D., *Professor of Physiology and Instructor in German*.....1418 O'Fallon st.
- JAMES K. HOSMER, Ph.D., *Professor of English and German Literature*.....3418 Lucas av.
- FRANCIS E. NIPHER, A.M., *Wayman Crow Professor of Physics*.....3021 Thomas st.
- HALSEY C. IVES, *Professor of Drawing and Design*.....1801 Washington av.
- JOHN K. REES, A.M., E.M., *Professor of Mathematics and Astronomy*.....2941 Laclede Av.
- GUSTAVUS A. FINKELNBURG, *Professor of Contracts and Commercial Law*....902 Autumn st.
- GEORGE W. CLINE, A.M., *Lecturer on Criminal Law*.....840 South Eighth st.
- CLINTON D. KELLOGG, *Instructor in Gymnastics*Wash. University.
- CHAS. F. WHITE, B.S., *Superintendent of the Work Shop*.....1728 Washington av.
- JOHN R. SCOTT, A.M., *Instructor in Elocution*.....1017 Garrison av.

UNIVERSITY PROFESSORS.

TRUMAN M. POST, D. D.,
Professor of Ancient and Modern History.

JOHN T. ENGLEMAN, M.D.,
Professor of Botany and Natural History.

JOHN T. HODGEN, M.D.,
Professor of Anatomy and Physiology.

W. T. HARRIS, LL.D.,
Professor of Philosophy of Education.

C. V. RILEY, PH. D.,
Professor of Entomology.

“University Professors” have no regular duties imposed upon them, but will give lectures, either in the class-room or in University Hall, from time to time, as may be specially arranged and announced.

THE ACADEMY.

	RESIDENCE.
DENHAM ARNOLD, A.M., <i>Principal</i>	2643 Washington av.
JAMES A. LANIUS, <i>First Assistant</i>	1613 Pine street.
WM. S. CURTIS, A.B., <i>Second Assistant</i> ..	3212 Sheridan av.
ISAAC N. CUNDALL, A.M., <i>Teacher of</i> <i>Third Class</i> ,.....	2823 Morgan st.
CHARLES H. STONE, <i>Teacher of Fourth</i> <i>Class</i>	1017 N. 16th st.
HORACE A. BROWN, LL.B., <i>Teacher of</i> <i>English Branches and Book-Keeping</i> ,....	2949 Gamble st.
ELI R. OFFUTT, <i>Teacher of Mathematics</i> ,.	3015 Thomas st.
EDMUND A. ENGLER, A.M., <i>Assistant</i> ..	1751 Missouri av.
CHAS. T. STRATTAN, <i>Teacher of Fifth</i> <i>Class</i>	1909 Washington av.
CHAS. P. CURD, A.M., <i>Assistant</i>	2901 Dayton st.
WALDEMAR MALMENE, M.B., <i>Cantab.</i> <i>Teacher of Vocal Music</i> ,.....	1502 Olive st.
MRS. ANNA C. HILLMAN, <i>Teacher of</i> <i>Preparatory Department</i> ,.....	2723 Wash st.
MISS INEZ E. BORDEN, <i>Teacher in Pre-</i> <i>paratory Department</i>	1802 Olive st.
MISS AMANDA FORD, <i>Principal of Pri-</i> <i>mary Department</i>	1802 Olive st.
MISS FANNY S. HOYT, <i>Ass't Teacher in</i> <i>Primary Department</i>	2839 Olive st.
MISS ISABELL H. NOYES, <i>Ass't Teacher</i> <i>in Preparatory & Primary Departments</i> ..	3021 Easton avenue.

MARY INSTITUTE.

- CALVIN S. PENNELL, A.M., *Principal*..3692 Baker avenue.
 MISS CAROLINE E. PENDLETON, *In-*
structor in Latin.....1613 Pine street.
 MISS HENRIETTA SAWYER, *Principal*
of Preparatory Department,.....3346 Morgan street
 MISS MARGARET T. WALLACE, *Prin-*
cipal of Primary Department,.....2926 Laclede av.
 MISS SOPHIA DESLOGE, *Assistant in*
Primary Department.....No. 5 Benton place.
 MISS SARAH E. COLE, *Instructor in Nat-*
ural Sciences and Mathematics,.....2910 Pine St.
 MISS HELEN E. SWAIN, *Teacher of Nat-*
ural Philosophy and English Branches,...2115 Walnut street.
 MISS ANNIE WALL, *Teacher of History*
and German,.....2810 Locust street.
 MRS. ANNIE L. MCCARGO, *Teacher of*
English Branches,.....2934 Laclede av.
 MADAME LOUISE GRANDJEAN, *Teach-*
er of French,.....1628 Dodler street.
 MRS. JENNIE R. GREENE, *Teacher of*
English,.....1618 S. Compton av.
 MISS JOSEPHINE E. YEOMAN, *Teacher*
of Reading and Composition,.....3402 Washington av.
 MISS SAIDEE DUNNICA, *Teacher of*
Gymnastics and English Branches.....2603 Walnut street.
 MRS. KATE J. BRAINERD, *Teacher of*
Vocal Music.....2813 Stoddard st.
 MISS SARAH M. MILLS, *Teacher of*
Drawing,512 West End place

- MISS MARY J. RYCHLICKI, A.M., *In-*
structor in Natural Sciences and Mathe- { King's Highway and
matics..... { Page avenue.
- MRS. S. D. HAYDEN, *Instructor in Pen-*
manship..... 608 N. Thirteenth st.
- MISS LEDA M. SHOONMAKER, *Assistant*
Teacher in Modern Languages..... 3692 Baker avenue.
- MISS EDITH W. KRIBBEN, *Assistant in*
English Branches..... 923 Amelia avenue.

GENERAL STATEMENT.

WASHINGTON UNIVERSITY, founded in the city of St. Louis, under an Act of Incorporation by the State of Missouri, approved February 22, 1853, comprises several Departments, and is intended to embrace the whole range of University studies, except Theology, and to afford opportunity of complete preparation for every sphere of practical and scientific Life.

By the Eighth Article of the Constitution, "no instruction, either sectarian in religion, or partisan in politics, shall be allowed in any Department of the University; and no sectarian or partisan test shall be used in the election of Professors, Teachers, or other officers of the University; nor shall any such test ever be used in the University for any purpose whatsoever. This Article shall be understood as the fundamental condition on which all endowments, of whatever kind, are received." The Constitution also declares the Article now quoted "not subject to alteration at any time;" but, to guard against all encroachments in this important particular, the Directors have obtained from the General Assembly an amendment to the Charter, by which said Article is incorporated in the same, and thereby placed beyond the power of any future Board of Directors. The Act of Amendment, approved February 12, 1857, declares:

"SEC. 2. No instruction, either sectarian in religion, or partisan in politics, shall be allowed in any Department of said University; and no sectarian or party test shall be allowed in the election of Professors, Teachers, or other officers of said University, or in the admission of scholars thereto, or for any purpose whatever.

"SEC. 3. It shall be the duty of the Board of Directors of said University, upon being informed of any violation of the second section of this Act, forthwith to institute an inquiry into

be paid, and the best facilities for education, apparatus, library, buildings, etc., must also be supplied. At the same time, the rates of tuition must be kept down, so as to open the institution to as large a number as possible, and free scholarships endowed for the benefit of deserving pupils who are in indigent circumstances. For these purposes a million dollars could be immediately and advantageously used without extravagance, and the attention of liberal and wealthy men is earnestly called to the subject. To show the principle on which endowments are invited, the fifth, sixth and seventh Articles of the Constitution are here inserted.

“ARTICLE V.

“ENDOWMENT OF PROFESSORSHIPS.

“Any person may endow, in whole or in part, a specified Professorship in the said University; and if, in the opinion of the Board of Directors, said endowment shall be sufficient for the perpetual support of said Professorship, said Professorship shall bear the name of its founder forever, unless at the time of the endowment he shall otherwise direct.

“ARTICLE VI.

“ENDOWMENT OF DEPARTMENTS.

“Any person may found, by an adequate endowment, a specific Department in said University, provided the plan of its organization and its purposes are approved by the Board of Directors; and if said endowment shall, in the opinion of said Board, be sufficient for the perpetual support of said Department, it shall bear the name of the founder thereof forever, unless he shall otherwise direct at the time of endowing the same.

“ARTICLE VII.

“SPECIFIC FUNDS.

“All funds and property, of whatever nature and description, contributed to the endowment or founding of a Professorship or Department, shall forever be faithfully applied to the specific purpose for which contributed, and to no other object whatso-

ever, without the written consent of the donor or founder thereof, or his heirs or assigns, and also the written consent of two-thirds of the Directors first had and obtained; provided however, that said funds and property in this article named shall never be diverted from the purposes of said University."

THE BRIDGE ENDOWMENT.

In March, 1871, the University received from Hon. Hudson E. Bridge a gift of \$100,000 for the endowment of the Chancellorship and for a Library Fund; \$15,000 toward the erection of the Polytechnic Building, and \$15,000 for providing it with furniture and apparatus. In recognition of this liberality, the Board of Directors voted that the office of Chancellor should receive the title of "*The Bridge Chancellorship*."

THE ALLEN PROFESSORSHIP OF MINING AND METALLURGY.

At the annual meeting of the Alumni, March 2, 1872, Hon. Thomas Allen offered the interest for five years, at seven per cent., of the sum of \$40,000 for the purpose of endowing a chair of *Mining and Metallurgy*. His offer was gratefully accepted by the Board of Directors; and a complete "School of Mines" has been organized and is now in operation, with all advantages usually enjoyed.

SMITH LECTURE FUND.

A Lecture Fund has been established, for account of which see p.— of Catalogue.

ORGANIZATION.

WASHINGTON UNIVERSITY.

COMPREHENDS:

- I.—SMITH ACADEMY.
- II.—MARY INSTITUTE.
- III.—THE COLLEGE.
- IV.—THE POLYTECHNIC SCHOOL.
- V.—THE LAW SCHOOL.

The first is essentially a Preparatory School, fitting students for the higher departments. Students entering the Polytechnic School and the Law School are not required to be college graduates, but they are recommended to secure, as fully as possible, the benefits of a college course before entering either professional school. Graduates of colleges of good standing will be received into the Junior class of the Polytechnic School without examination.

At a meeting of the Board of Directors of the University, held in November, 1874, the following resolutions were adopted:

Resolved, On recommendation of the Faculty, and with a view to the promotion of the best interests of learning and science, and for the encouragement of young men to obtain a complete education before entering upon a professional career.

1—That the graduates of the College of the University shall have *free admission* to the classes of the Polytechnic School, either as regular or partial students, subject to the rules and regulations of the same.

2—That the graduates of the Polytechnic School shall have *free admission* to the College classes, either as regular or partial students, subject to the rules and regulations of the same.

The following resolution was also passed, embodying the principle already in practical operation, but not previously placed upon record:

“That the graduates of Mary Institute in full standing shall be entitled to *free admission* to the classes of the College or the Polytechnic School, either as regular or partial students, on examination, and subject to the rules and regulations of said departments: it being distinctly understood that a diploma shall not be given to any such student except on completion of the full course of study.”

I.—SMITH ACADEMY.

FACULTY AND INSTRUCTORS.

WM. G. ELIOT, DD.,

CHANCELLOR.

DENHAM ARNOLD, A. M.

PRINCIPAL.

SYLVESTER WATERHOUSE, A. M.

GEORGE E. JACKSON, A.M.

MARSHAL S. SNOW, A.M.

JOHN H. JENKS, M.D.

JAMES K. HOSMER, Ph. D.

HASLEY C. IVES.

JAMES A. LANIUS.

WM. S. CURTIS, A.B.

ISAAC N. CUNDALL, A.M.

CHARLES H. STONE.

HORACE A. BROWN, LL. B.

ELI R. OFFUITT.

EDMUND A. ENGLER, A. M.

CHARLES T. STRATTAN.

CHAS. P. CURD, A. M.

WALDEMAR MALMENE.

JOHN R. SCOTT, A.M.

Mrs. ANNA C. HILLMAN.

Miss INEZ E. BORDEN.

Miss AMANDA FORD.

Miss FANNY S. HOYT.

Miss ISABELL H. NOYES.

STUDENTS.

ADVANCED CLASS.

NAME.	RESIDENCE.
Capen, Samuel D.....	912 Garrison avenue.
Dana, Charles H.....	1633 2d Carondelet av.
Fuller, John P.....	1628 Lucas Place.
Gass, James D.....	2129 Market street.
Holliday, Joseph G.:	2933 Lucas avenue.
Hume, Stanton B.....	3437 Lucas avenue.
Knox, Lefferts.....	2628 Washington avenue.
McLaran, Robert L.....	Baden, St. Louis Co.
Olcott, Arthur W.....	Rock Hill, Mo.
Patrick, Edward T.....	1618 Washington avenue.
Taussig, Alfred.....	1109 Valle avenue.
Total, 11.	

FIRST CLASS.

Conway, Arthur.....	Bellefontaine, St. L. Co.
Davis, Chas. G.....	2832 Dayton street.
Davis, James C.....	Normandy, Mo.
Hartmann, Walter.....	Belleville, Ill.
Hay, Sherman.....	Belleville, Ill.
Holliday, William H.....	2933 Lucas avenue.
Jones, Robert F.....	2707 Clark avenue.
Leighton, George B.....	803 Garison avenue.
McMillan, James H.....	2813 Clark avenue.
Neuhoff, Fritz.....	Belleville, Ill.
Richards, Eben Jr.....	{ Cor. Franklin & Grand avenues.

NAME.	RESIDENCE.
Ridgely, Samuel W.....	2631 Washington av.
Smith, Baron P.....	Carondelet.
Smith, Irwin Z. Jr.....	1800 Wash street.
Turner, Wilson P. H.....	1706 Lucas Place.
	Total, 1

SECOND CLASS.

Anthony, William S.....	Anthony's Mills, Mo.
Avery, Edward H.....	Webster Groves, Mo.
Block, David, Jr.....	1409 Chouteau avenue.
Cundall, Walter A.....	2823 Morgan street.
Dean, Willie W.....	1728 Washington avenue.
Haarstick, Willie T.....	{ Russell av. between Pon- tiac & Compton avs.
Hall, Herman.....	3609 N. Ninth street.
Henry, Wm. Stewart.....	Cote Brilliante.
Hillegeist, Edward B.....	3723 N. Ninth street.
Hodges, Abel B. W.....	2115 Walnut street.
Hutchinson, Cary.....	2929 Locust street.
Krenning, H. Benjamin.....	1018 N. Thirteenth street.
Lange, Oscar Chas.....	Maramec st. & Iowa av.
Lewis, Silas Silver.....	3121 Washington avenue.
McCargo, Wallace.....	2934 Laclede avenue.
Mersman, Otto L.....	1600 Mississippi avenue.
Meyer, Chas. Edward.....	St. Charles, Mo.
Moore, Daniel A.....	1118 St. Ange avenue.
Ostrom, Chas. S.....	2823 Morgan street.
Plant, Fred S.....	Webster Groves, Mo.
Powell, George W.....	3109 West Bell street.
Primm, Alexander T., Jr.....	Belleville, Ill.
Robie, Lewis P.....	Boston, Mass.
Rowse, Edward C.....	1820 Schild avenue.
Ruesch, Charles F.....	Belleville, Ill.
Scholer, Ernest.....	3011 Cass avenue.
Schroeder, Herman A.....	East St. Louis.

NAME.	RESIDENCE.
Taussig, Otto Emil.....	1312 Dillon street.
Tomhagen, Andrew.....	510 Wash street.
Underwood, Grant.....	Belleville, Ill.
Wiebusch, August.....	1508 Rosatti street.
Total, 31.	

PREPARATORY SCIENTIFIC CLASS.

Boedicker, Ernest.....	1614 Papin street.
Coste, Felix.....	1733 Park Place.
Everts, Charles T.....	1816 Papin street.
Fabian, Charles C.....	1107 Dillon street.
Feldman, Richard.....	Hermann, Mo.
Gage, Charles L. Jr.....	3668 Washington avenue.
Garrett, Wm. O.....	Webster Groves, Mo.
Gentry, John R.....	Sedalia, Mo.
Gordon, Lindell.....	2227 Lucas Place
Graeter, Luther D.....	Bannack City, Montana.
Harris, John F.....	1504 Webster avenue.
Harrison, Hugh McC.....	531 S. Jefferson avenue.
Haseltine, Chas. W.....	2731 Pine street.
Hough, George G.....	Kirkwood, Mo.
Kinealy, John H.....	Baden, Mo.
McVean, Fred C.....	Jefferson Barracks.
Mortland, Chittick Jr.....	1521 Chouteau avenue.
Neidringhaus, Alex.....	1615 Benton street.
Petring, George Henry.....	1709 Wash street.
Poujaud, Leon A.....	1405 Pine street.
Skrainka, Philip.....	1825 Papin street.
Stille, Theodore J.....	920 Hickory street.
Wright, G. Siddall.....	Carrollton, Ill.
Zukoski, Edmund L.....	1829 Kennett Place.
Total, 24.	

COMMERCIAL CLASS.

NAME.	RESIDENCE.
Ashbrook, Letcher L.....	3022 Glasgow Place.
Asker, John Jr.....	1305 Hickory street.
Davidson, Edward E.....	3100 Morgan street.
Garrison, Cornelius K.....	2630 Washington avenue.
Hays, Harry D.....	2705 Lucas avenue.
Hosmer, Henry H.....	Nashville, Ill.
Kraemer, Wm.....	2913 Easton avenue.
Lee, Wm.....	Baden Mo.
Meyer, John P.....	2002 Lafayette avenue.
O'Reilly, Andrew.....	1735 Washington avenue.
Teichman, Otto L.....	1032 S. Eighth street.
	Total, 11.

THIRD CLASS.

Alexander, Arthur W.....	3537 Lindell avenue.
Bartholow, Russell N.....	3144 Locust street.
Blossom, Henry M. Jr.....	3000 Locust street.
Brown, Gratz K.....	3130 Sheridan avenue.
Brown, Wiley Bush.....	Sweet Springs, Mo.
Carr, Peyton T.....	Glencoe, Mo.
Combs, Wm. S.....	Collinsville, Ill.
Damhorst, Henry.....	2711 Clark avenue.
Dunker, Charles H.....	2627 Mills street.
Dyer, E. Hunt.....	3111 Lucas avenue.
Feuerborn, F. P. Harvey.....	1214 N. Twelfth street.
Francis, Arthur G.....	1108 S. Seventh street.
Francis, George M.....	1108 S. Seventh street.
Glasgow, William J.....	1510 Washington avenue.
Godfrey, L. Hunter.....	3002 Pine street.
Grether, Ellsworth Tell.....	2804 Washington avenue.
Harless, Adolph.....	1406 Hickory street.
Harrison, Thomas G.....	Belleville, Ill.
Hawley, Fred C.....	3022 Pine street.
Hebard, Alfred Partridge.....	1618 Olive street.

NAME.	RESIDENCE.
Houser, Wm. M.....	1624 Chouteau avenue.
Hull, Edward B. Jr.....	2810 Morgan street.
Knight, Harry F.....	3500 Lucas avenue.
Knoebel, Edward H.....	1009 Cass avenue.
Lewis, Charles A.....	Jefferson Barracks.
Lindsley, Guy R.....	3030 Morgan street.
Lippman, Felix Berthold.....	1209 Dillon street.
Love, Willie S.....	1916 Wash street.
Mathey, Constant F.....	1021 Dolman street.
Maude, Lees.....	1907 Washington avenue.
Miller, Lee Bland.....	St. Charles Road.
North, Samuel Farrington.....	Gray's Summit, Mo.
O'Fallon, Frank M.....	2654 Locust street.
Padfield, Eugene Albert.....	Belleville, Ill.
Patterson, Robert D. Jr.....	2828 Locust street.
Peter, Edward F.....	3544 Lindell avenue.
Platt, Harry S. Jr.....	3659 Baker avenue.
Pocock, Walter.....	3107 W. Bell street.
Quigley, Robert M.....	Carondelet.
Riecke, John W.....	1607 Monroe street.
Robert, Dent Hayes.....	2821 Morgan street.
Scudder, Charlie.....	3623 Olive street.
Shaw, Stephen G.....	2920 Locust street.
Simpkins, Allan T.....	3106 Morgan street.
Snow, Robert B.....	2700 Olive street.
Wagenmann, Joseph F.....	2432 Franklin avenue.
Watson, Harry A.....	3022 Easton avenue.
Westerman, Emil A.....	1926 Carr street.

Total, 48.

FOURTH CLASS.

Adler, Irwin.....	1725 Park Place.
Annan, Sylvester P.....	3104 School street.
Bang, August W.....	Belleville, Ill.
Bryan, Benjamin.....	3106 Clark avenue.
Cavender, Edward R.....	2817 Ruteher street.
Cole, George W.....	1520 Market street.

NAME.	RESIDENCE.
Combs, Joseph A.....	Collinsville, Ill.
Davis, Raphael Jr.....	Memphis, Tenn.
Dodson, Charles L.....	1300 Chouteau avenue.
Fabricsius, Henry.....	Cor. Ohio & Cecile sts.
Grone, John G.....	2214 Clark avenue.
Hume, William S.....	3437 Lucas avenue.
Jencks, Joseph L.....	Collinsville, Ill.
Lambert, George.....	432 S. Thirteenth street.
Marriott, Charles T.....	2715 State street.
MacDonald, Malcolm W.....	2706 Lucas avenue.
Murphy, Hawkins O.....	Pinckneyville, Ill.
Nicholas, Alexander.....	1108 Garrison avenue.
Obermeier, Edward A.....	1847 Dodier street.
Plass, Willie C.....	Main near Ranpolph st.
Renfrew, John.....	Normandy, St. L. Co., Mo.
Robirds, Lee G.....	1213 Garrison avenue.
Schlegel, Robert A.....	1313 Hickory street.
Skinner, Hylan.....	Eddyville, Ky.
Starkel, Louis T.....	Belleville, Ill.
Talbot, Willie S.....	3427 Morgan street.
Thompson, Frank C.....	Lindell Hotel.
Valliant, Frank W.....	2131 Walnut street.
Van Studdiford, Charles D.....	1623 Olive street.
Waters, William D.....	2309 Locust street.
West, A. Loving.....	2901 Dayton street.
Wolff, Marcus A., Jr.....	Cote Brilliante.
Wood, Albert W.....	Gray's Summitt, Mo.
Total, 33.	

FIFTH CLASS.

Bascome, Western R.....	2121 Pine street.
Beard, Harry L.....	2612 Lafayette avenue.
Belt, Lloyd T., Jr.....	3010 Easton avenue.
Bentzen, John Adolph.....	{ Natural Bridge Road & Papin avenue.
Bentzen, William F.....	{ Natural Bridge Road & Papin avenue.

NAME.	RESIDENCE.
Blake, Charles A.....	Papin avenue.
Bracket, Darville S. A.....	1619 Washington avenue.
Broughton, Henry P.....	Belleville, Ill.
Brown, William Lawrence.....	2949 Gamble street.
Carrington, Charles W.....	824 N. Ninth street.
Chamberlain, Freddie B., Jr.....	1819 Washington avenue.
Clark, Daniel H.....	2653 Washington avenue.
Conrades, John Henry, Jr.....	1823 Carr street.
Dalton, Hamilton McM.....	1103 North Park Place.
Davis, John Tilden, Jr.....	2123 Lucas Place.
Dickinson, John M.....	3222 Sheridan avenue.
Furst, Edward Everett.....	St. Joseph, Mo.
Gempp, Robert L.....	1127 Dolman street.
Gordon, Clarence M.....	2227 Lucas Place.
Graham, J. Spalding.....	2615 Pine street.
Haseltine, George C.....	2731 Pine street.
Hermann, Oscar J.....	812 Hickory street.
Huntsman, Richard H.....	Faribault, Minn.
Hutchinson, William N.....	2949 Sheridan avenue.
Jacobs, Hymon.....	412 Leffingwell avenue.
Kibby, Norman H.....	905 N. Nineteenth st.
Macqueen, Alexander N.....	2138 Eugenia street.
McCargo, John.....	2934 Laclede avenue.
McKittrick, Hugh.....	2933 Locust street.
Moser, Jacob Jr.....	Sinclair Co. Ill.
Niedringhaus, Walter C.....	1640 Benton Place.
Offutt, Douglas.....	3015 Thomas street.
Pieper, Wesley L.....	Belleville, Ill.
Robinson, Charles L.....	3341 Morgan street.
Rosenheim, Philip S.....	3042 Locust street.
Rosenthal, Charles Theodore.....	1818 Kennett Place.
Russell, Edward M.....	Oakhill, Mo.
Samuel, Russell W.....	3407 Washington avenue.
Sanwald, Frederick J.....	923 Market street.
Schmidt, Rudolph S.....	1177 Hickory street.
Scott, Walter S.....	3515 Pine street.
Shryock, Ira G.....	2707 Morgan street.
Smith, Harry T. T.....	1533 Chouteau avenue.

NAME.	RESIDENCE.
Stewart, Seymour.....	2616 Chestnut street.
Taylor, Rodney C.....	{ Cor. Cook & Vanderventer avenue.
Thole, Louis.....	
Thomas, John O.....	907 Winter street.
Thomas, John O.....	Belleville, Ill.
Walker, James Harvey.....	1112 Montgomery street.
Zukoski, Charles Fred.....	1829 Kennett Place.
Total, 49.	

PREPARATORY CLASS.

Bartlett, James A.....	3018 Glasgow Place.
Barns, Chancy S.....	1504 Webster avenue.
Barns, Harry G.....	1504 Webster avenue.
Bartle, D. Shelby.....	Clayton Rd. & Tesson av.
Becker, Arthur.....	East St. Louis.
Benton, William H. Jr.....	1604 Lucas Place.
Berkley, E Lee.....	3102 Morgan street.
Blackman, James Herbert.....	3101 Chestnut street.
Brush, G. W. Carter.....	3407 Pine street.
Calhoun, Ayres.....	2705 Lucas avenue.
Campbell, Given, Jr.....	2221 Lafayette avenue.
Capen, George Henry.....	912 Garrison avenue.
Chandler, Harry W.....	2910 Olive street.
Cook, Isaac, Jr.....	Lindell Hotel.
Eaton, Frank G.....	1621 Olive street.
Edgerton, Charles H.....	2363 Summer street.
Ferguson, Paul N.....	2603 Chestnut street.
Franciscus, James M.....	3200 Lafayette avenue.
Gardner, Willie Allan.....	3017 Glasgow Place.
Glasgow, Jefferson C.....	2735 Chestnut street.
Grether, John L.....	2804 Washington avenue.
Hall, Allen.....	1347 Washington avenue.
Handbury, Victor C.....	3204 Pine street.
Hequemborg, Edward S.....	1014 Dolman street.
Heth, James Britton.....	{ 165 E. Washington street Chicago.

NAME.	RESIDENCE.
Hitchcock, George C.....	1507 Lucas Place.
Hodgen, John M.....	2703 Washington avenue.
Holland, Robert A.....	2704 Lucas avenue.
Hosmer, Edward Stebbins.....	3418 Lucas avenue.
Hutchinson, Franklin.....	2949 Sheridan avenue.
Hutchinson, Randolph.....	2929 Locust street.
Kauffman, Walter H.....	2818 Gamble street.
Kennard, John B.....	703 Garrison avenue.
Knight, Eugene C.....	3500 Lucas avenue.
Krum, John M.....	2732 Washington avenue.
Lackland, Chaffraix D. A.....	3552 Lindell avenue.
Lange, Wm. B.....	{ Cor. Maramec street & Iowa avenue.
Langenkamp, Wm. H.....	St. Charles Rock Road.
Lewis, Charles V.....	1529 Franklin avenue.
Lipscomb, Henry J.....	3118 Pine street.
Logeman, Roland H.....	1827 Carr street.
Maffitt, William.....	3501 Washington avenue.
Magruder, David Lynn.....	2923 Washington avenue.
McDonald, Nathaniel.....	35 Benton Place.
McNichol, Robert Lee.....	1509 Chestnut street.
Nedderhut, Otto Charles.....	3003 Lafayette avenue.
ienstedt, William H.....	48 Vine street.
Peter, George Fred.....	3544 Lindell avenue.
Platt, James L.....	3659 Baker avenue.
Rowland, William.....	2910 Morgan street.
Schneider Julius A.....	1832 S. Eighth street.
Schray, Emil.....	Penn & Gasconade aves.
Scott, Robert L.....	1116 St. Ange avenue.
Shands, Edward P.....	2616 Clark avenue.
Simmons, Wallace D.....	2721 Olive street.
Snowdon, Harry L.....	414 Leffingwell avenue.
Stagg, M. Stanley.....	3035 Morgan street.
Steedman, J. Harrison.....	2803 Pine street.
Stone, Percy W.....	1019 N. Sixteenth street.
Tesson, Edward P.....	2620 State street.
Van Sice, Caleb J.....	14 N. Compton avenue.
Ware, Edward Y.....	1113 Washington avenue.

NAME.	RESIDENCE.
Wetzel, Gustavus E.....	2229 Lafayette avenue.
Wickham, Leigh.....	1712 Lucas Place.
	Total, 46.

PRIMARY CLASS.

Alkire, George A.....	Bridgeton Station.
Anderson, Wartie H.....	2617 Franklin avenue.
Annan, Paul.....	3104 School street.
Arnold, Franklin L.....	2643 Washington avenue.
Barnes, Augustus F.....	3057 Easton avenue.
Benson, Benjamin G.....	1924 Wash street.
Blair, Cary.....	2737 Chestnut street.
Bonsack, George H.....	1916 Hickory street.
Branch, Richard C.....	3803 Bellefontaine Road.
Brookmire, James H....	2733 Lucas avenue.
Bryden, Sylvester L.....	2816 Gamble street.
Calvert, Rupert L.....	3423 Chestnut street.
Churchill, Winston.....	2810 Pine street.
Collins, Charles C.....	2617 Chestnut street.
Collins, Wm. H.....	2617 Chestnut street.
Collins, Henry Blaksley.....	3422 Morgan street.
Conrades, Charles Belmont.....	1823 Carr street.
Corbitt, Arthur J.....	1812 Wash street.
Crosby, Dexter S., Jr.....	2627 Pine street.
Cummings, Charles G.....	1125 Locust street.
Davis, Samuel C.....	2123 Lucas Place.
Emmons, Nathaniel H.....	Cabanne Station.
Evill, Burton K.....	2028 Chestnut street.
Faust, Anthony R.....	517 Walnut street.
Faust, Edward A.....	517 Walnut street.
Foy, Julius L. F.....	1522 Lucas Place.
Gibbs, Rufus J.....	2138 Eugenia street.
Goddard, George H.....	3131 Lucas avenue.
Goddard, Warren.....	2920 Gamble street.
Horner, Scott.....	2304 Pine street.

NAME.	RESIDENCE
Hume, Curtis B.....	2733 Morgan street.
Jacobs, Robert W.....	1610 Mississippi avenue.
Kauffman, William P.....	2818 Gamble street.
Lackland, Henry K.....	3552 Lindell avenue.
Lee, Frank D., Jr.....	3038 Sheridan avenue.
Lewis, Robert B.....	2630 Pine street.
McKittrick, Alan.....	2913 Locust street.
Meyer, Rudolph F.....	2002 Lafayette avenue.
Meyer, William A.....	2002 Lafayette avenue.
Moore, Austin S.....	Page & Vandeventer Pl.
Mullikin, Charles.....	818 Gratiot street.
Nedderhut, William F.....	3003 Lafayette avenue.
Pallen, Samuel Gaty.....	3409 Broadway.
Papin, Edward V.....	2014 Olive street.
Pearce, McCloud.....	2207 Lucas Place.
Petring, Walter H.....	1709 Wash street.
Richards, Thomas T., Jr.....	2608 Locust street.
Robinson, Paul Gervais.....	3411 Washington avenue.
Shepley, Arthur B.....	1518 Washington avenue.
Simmons, Edward H.....	2721 Olive street.
Smith, Dwight G.....	1800 Wash street.
Smith, Rupert W.....	Poplar Bluffs.
Snyder, John L.....	3033 Morgan street.
Stagg, Thomas H.....	3035 Morgan street.
Talmage, James C.....	2223 Lafayette avenue.
Todd, Henry Stanley.....	2637 Washington avenue.
Todd, William.....	2637 Washington avenue.
Urdike, Ewing E.....	3120 Chestnut street.
Valliant, John.....	2131 Walnut street.
Walker, J. Stewart.....	3416 Washington avenue.
Wear, John Holliday.....	3027 Morgan street.
Witte, F. Alexander.....	1909 Lafayette avenue.
Total, 62.	

ADMISSION.

Pupils are admitted to the Fifth Academic Class at the age of eleven years *provided* they can pass a satisfactory examination in Reading, Spelling, Writing, Geography and Elementary Arithmetic. Those not qualified for this class are received in the Preparatory Class, and provided with a separate room and special instructor. No pupils will be received for less than one term, and no abatement in tuition will be made for absence, whether such absence occur at the beginning, middle or end of the term. Every absence, however brief from the regular exercises, should be regarded as an infringement upon the good order of the school, and a serious hindrance to individual progress. The course of instruction in this department extends through six years, and includes those studies which are preparatory to the College and the Polytechnic School of the University.

COURSE OF STUDY.

FIFTH CLASS.

Mathematics.—Felter's Arithmetic.

Geography.—Harper's.

English Grammar.—Greene's Introductory.

Physiology.—Hotze's.

Reading, Writing and Spelling; Composition.

FOURTH CLASS.

Mathematics.—Felter's Arithmetic and Stoddard's Intellectual Arithmetic.

History.—Anderson's United States.

English Grammar.—Greene's Introductory.

Latin.—Harkness' Introductory Latin Book.

Philosophy.—Cooley's.

Reading, Writing and Spelling; Composition.

THIRD CLASS.

FIRST TERM.

Mathematics.—Walton's Written Arithmetic and Stoddard's Intellectual Arithmetic.

Latin.—Harkness' Latin Reader.

English Grammar.—Parsing and Analysis.

Philosophy.—Cooley's.

Reading, Writing, and Spelling; Composition and Declamation.

SECOND TERM.

Mathematics.—Walton's Written Arithmetic.

Grammar.—Parsing and Analysis.

Latin.—Harkness' Latin Reader.

Reading, Writing and Spelling; Composition and Declamation.

SECOND CLASS.

FIRST TERM.

Geography.—Guyot's Physical Geography.

Latin.—Harkness' Cæsar.

Greek.—Harkness' First Greek Book.

Rhetoric.—Quackenbos' First Lessons.

Writing and Spelling; Composition and Declamation.

SECOND TERM.

Mathematics.—Ficklin's Algebra.

Latin.—Harkness' Cæsar.

Greek.—Harkness' First Greek Book, Felton's Greek Reader.

History.—United States.

Writing and Spelling; Composition and Declamation.

FIRST CLASS.

FIRST TERM.

Physiology.—Hitchcock's.

Mathematics.—Ficklin's Algebra.

Latin.—Æneid of Virgil.

Greek.—Anabasis; Greek Prose Composition.

History.—England.

Composition and Declamation.

SECOND TERM.

Mathematics.—Ficklin's Algebra.

Latin.—Æneid of Virgil; Latin Prose Composition.

Greek.—Felton's Greek Reader.

History.—England.

German.—Otto's German Grammar.

Composition and Declamation.

ADVANCED CLASS.

FIRST TERM.

Latin.—Æneid of Virgil; Latin Prose Composition.

Greek.—Felton's Greek Reader; Greek Composition.

Mathematics.—Davies' Legendre.

German.—Comfort's German Reader.

History.—Pennell's Greece.

Composition and Declamation.

SECOND TERM.

Latin.—Cicero's Orations; Latin Prose Composition.

Greek.—Anabasis; Greek Prose Composition.

Mathematics.—Davies' Legendre, continued.

German.—William Tell.

History.—Pennell's Rome.

Composition and Declamation.

PREPARATORY SCIENTIFIC CLASS.

FIRST TERM.

Algebra.—Ficklin's.

Physiology.—Hitchcock's.

German.—Otto's Grammar; Comfort's German Reader.

History.—England.

Composition and Declamation.

Geometry and Mechanical Drawing.

SECOND TERM.

Algebra.—Ficklin's, through Quadratics—use of Logarithms.

Philosophy.—Rolfe and Gillet's.

History.—England.

German.—William Tell.

Geometry and Mechanical Drawing.

Composition and Declamation.

Students joining the Commercial Class pursue only the English studies of the preceding course, together with Book-keeping. The full Academic Course, although especially designed for those who intend to pursue the Collegiate Course, is nevertheless recommended, also, for those who are preparing for commercial life, unless previous want of preparation prevents its adoption.

PRIMARY SCHOOL.

To meet the wishes of a number of parents, a Primary School has been organized for boys under eleven years of age. It is placed under the immediate charge of a competent lady, but is under the general supervision of the Principal of the Academy.

GYMNASIUM.

A Gymnasium erected on the grounds of the University, is open to the students of the Academy, and classes are trained by a competent instructor.

EXAMINATIONS.

Besides examinations of classes by select committees, appointed by the Directors for the purpose, public examinations are held at the close of the Academic term.

MONTHLY REPORTS.

Monthly reports will be made of the attendance, deportment, standing, and general progress of each student, to which the attention of parents and guardians is especially invited

TUITION.

Primary Class, per term of 20 weeks.....	\$25 00
Preparatory " " "	30 00
Fifth " " "	35 00
Fourth " " "	35 00
Third " " "	37 00
Second " " "	40 00
First " " "	42 00
Advanced " " "	45 00
Commercial " " "	50 00
Preparatory Scientific, per term of 20 weeks...	50 00

These rates are for the current year only.

No *extra charge of any kind will be made*, provided payment is made within four weeks of the beginning of the term, or on demand; otherwise ten per cent. will be added to the bill.

N. B.—No pupils will be received for less than one term, and no abatement will be made for absence, whether such absence occurred at the beginning, middle, or end of each term.

II--MARY INSTITUTE.

FOUNDED MAY 11, 1859.

Several gentlemen, availing themselves of the liberal provisions of the University Charter, have established under it a Female Seminary. A commodious building was erected in 1858, at an expense of \$25,000, upon a spacious lot given for the purpose in Lucas Place. Subsequently an addition was made which more than doubled the original capacity and accommodations.

The need of more room and greater conveniences has, however, been felt for several years.

To meet this want a large, convenient and well-furnished building erected, in 1878, at a cost of \$70,000. at the corner of Beaumont and Locust streets, is now in use.

The Institute is provided with the most thorough and varied instruction, so that no citizen of St. Louis need send his daughter a thousand miles away from home, for four or five of the most critical years of her life, to be trained by strangers.

The connection of the Seminary with the University will be such as to secure to the young ladies all the means of high intellectual culture accessible to young men. The buildings and grounds of the two Institutions are distinct; but in respect to the classification, the course of study, and the general management of the Institute, the Chancellor will assist the Principal; and recitations in the Languages, the higher Mathematics and the Natural Sciences will be conducted to such an extent as shall seem desirable by the Professors in the College and the Polytechnic School of the University.

BOARD OF MANAGERS.

WM. G. ELIOT,
JOHN R. SHEPLEY,
HENRY HITCHCOCK,

GEORGE PARTRIDGE.
CARLOS S. GREELEY,
GEORGE E. LEIGHTON.

FACULTY.

WM. G. ELIOT, D.D., *Chancellor.*
CALVIN S. PENNELL, A.M., *Principal.*
Miss CAROLINE E. PENDLETON.
Miss HENRIETTA SAWYER.
Miss MARGARET T. WALLACE.
Miss SOPHIA DESLOGE.
Miss SASAH E. COLE.
Miss HELEN E. SWAIN.
Miss ANNIE WALL.
Mrs. ANNIE L. McCARGO.
MADAME LOUISE GRANDJEAN.
Mrs. JENNIE R. GREENE.
Miss JOSEPHINE E. YEOMAN.
Miss SAIDEE DUNNICA.
Mrs. KATE J. BRAINARD.
Miss SARAH M. MILLS.
Miss MARY J. RYCHLICKI, A.M.
Mrs. S. D. HAYDEN.
Miss LEDA M. SHOONMAKER.
Miss EDITH M. KRIBBEN.

STUDENTS.

ADVANCED CLASS.

NAME.	RESIDENCE.
Hinde, Vernetta.....	3551 Lucas avenue.
Libby, Cora.....	2644 Washington avenue.
Powell, Edith.....	Glendale.
Taussig, Emma.....	1019 Dolman street.
Wall, Lulu.....	2702 Locust street.
	Total, 5.

FIRST ACADEMIC CLASS.

NAME.	RESIDENCE.
Blow, Eugenia S	Lindell & Taylor avs.
Durkee, Helen L.....	2803 Locust street.
Field, Lillie.....	3149 Clark avenue.
Filley, Annie K.....	1614 Olive street.
Gill, Mary W.....	Kirkwood, Mo.
Groshon, Lottie.....	Webster Groves, Mo.
Gumersell, Ida B.....	Papin av., Cote Brilliant.
Howard, Eliza K.....	3036 Washington avenue.
Lewis, Sallie.....	3014 Morgan street.
Norris, Lizzie L.....	3039 Pine street.
Peper, Maggie P.....	Ashland Hill.
Richards, Carrie L.....	Grand & Franklin avs.
Rumbold, Millard E.....	1225 Washington avenue.
Shepley, M. Louisa.....	1518 Washington avenue.

NAME	RESIDENCE.
Smith, Lillie K.....	2951 Dickson street.
Shultz, Mollie.....	Compton Hill.
Warren, Mary.....	Kirkwood, Mo.
Total, 17.	

SECOND ACADEMIC CLASS.

Alexander, Ada.....	2120 Olive street.
Blossom, Mary.....	3000 Locust street.
Bell, Miriam.....	2819 Lucas avenue.
Barnum, Fannie C.....	2219 Olive street.
Carter, Emma N.....	Cor. Grand & Lucas avs.
Copelin, Emma R.....	Compton Hill.
Comstock, M. Ella.....	Compton Hill.
Durkee, Laura C.....	2803 Locust street.
Douglass, Virena B.....	1526 Pine street.
Eliot, Rose.....	2660 Washington avenue.
Elles, Laura E.....	Belleville, Ill.
Flagg, Belle.....	Moro, Ill.
Glasgow, Anita.....	2735 Chestnut street.
Gordon, Lillie.....	2227 Lucas Place.
Gumersell, Louisa B.....	Papin av., Cote Brilliant.
Hall, Hattie.....	3609 N. Ninth street.
Hargadine, Mary Mc.....	1416 Washington avenue.
Holmes, Laura.....	2035 Park avenue.
Hudson, Ella F.....	Compton Hill.
Munroe, Mary A.....	1618 Olive ssreet.
Maurice, Maune A.....	2035 Park avenue.
O'Fallon, Rosa.....	Cor. Grand & Lucas avs.
Pfaff, Hattie M.....	3302 Laclede auenue.
Wilson, Mabel A.....	Webster Groves.
Total, 24.	

IRREGULAR.

Bowman, Sallie.....	3029 Washington avenue.
Horton, Kate.....	3635 Lindell avenue.

THIRD ACADEMIC CLASS.

NAME.	RESIDENCE.
Allen, Maud.....	1414 Lucas Place.
Allison, Birdie.....	416 Leffingwell avenue.
Benton, Katie S.....	1604 Lucas Place.
Bridge, Amy.....	Glendale, Mo.
Brown, Mary G.....	3130 Sheridan avenue.
Foote, Emily K.....	2035 Walnut street.
Gage, Lizzie.....	3668 Washington avenue.
Glasgow, Susie M.....	2735 Chestnut street.
Haarstick, Ida A.....	Compton Hill.
Hodgman, Lucy H.....	3139 Lucas avenue.
Hyde, Fannie.....	3104 Washington avenue.
January, Mary B.....	3546 Lindell avenue.
Johnston, Bessie N.....	2812 Locust street.
Keferstein, Emily A.....	1128 St. Ange avenue.
Matthews, Mary N.....	Kirkwood, Mo.
Mense, Mary E.....	3104 Morgan street.
Miller, Emma.....	2729 Chestnut street.
Miller, Florence V.....	3208 Pine street.
McCollough, Jessie B.....	2653 Olive street.
Newman, Sallie.....	3037 Washington avenue.
Obear, Helen M.....	3008 Locus street.
Perry, Laura.....	2835 Pine street.
Patterson, Sallie D.....	2828 Locust street.
Prather, Lulu.....	1411 Chouteau avenue.
Pullis, Laura.....	Rock Hill, St. L. Co., Mo.
Reilley, M. Florence.....	2627 Locust street.
Sterling, Alma.....	1318 Chouteau avenue.
Sloss, Lulu.....	3631 Lindell avenue.
Tower, Saidee L.....	Compton Hill.
Tennent, Zaidée.....	3126 Lucas avenue.
Wilson, Carrie E.....	2706 Locust street.
Whaley, Lillie M.....	1613 Pine street.
Zeller, Amelia.....	1706 2d Carondelet av.
Total, 33.	

FOURTH ACADEMIC CLASS.

NAME.	RESIDENCE.
Anderson, Georgia C.....	3729 N. Ninth street.
Allen, Annie.....	2805 Russell avenue.
Barney, Emma L.....	Lindell Hotel.
Brown, Tinnie M.....	Webster Groves, Mo.
Bird, Callie M.....	Gainsville, Texas.
Chamberlain, Hattie E.....	1819 Washington avenue.
Downs, Anna.....	Omaha, Nebraska.
Einstein, Mathilde.....	3538 Washington avenue.
Franklin, Florence S.....	1750 McNair Place.
Finlay, Laura.....	2731 Morgan street.
Gauss, Adele L.....	{ California av. between Lafayette & Park avs.
Gill, Annebel H.....	Kirkwood, Mo.
Harrison, Dora S.....	2835 Olive street.
Humphrey, Susie E.....	3026 Sheridan avenue.
Hospes, Cecilia L.....	1623 Salisbury street.
Knapp, Alice E.....	2732 Pine street.
Liggett, Ella D.....	2921 Locust street.
McLaran M. Alice.....	Jenning's Station.
Matthews, Belle.....	Kirkwood, Mo.
Moore, Bettie W.....	2730 Lucas avenue.
Powell, Emma W.....	Glendale.
Paddock, Eva.....	3024 Belle street.
Provanchere, Genevieve E.....	1103 Paul street.
Rychlicki, Eugenia V.....	{ King's Highway & Page avenue.
Sells, Sallie.....	3106 Lucas avenue.
Souther, Cornelia P.....	3101 Lucas avenue.
Turner, Lizinka C.....	Normandy.
Tompkins, Mary E.....	Wood Lawn, Mo.
Vogel, Dora M.....	2049 St. Louis avenue.
Wulfig, Julia.....	1919 Gratiot street.
Total, £0.	

FIFTH ACADEMIC CLASS.

NAME.	RESIDENCE.
Benton, Lucy B.....	1604 Lucas Place.
Broadhead, Nannie D.....	Compton Hill.
Boyle, Lena.....	2305 Pine street.
Boehmer, Emma.....	511 Franklin avenue.
Coleman Mary B.....	3107 Sheridan avenue.
Corbitt, Sallie M.....	1812 Wash street.
Drake, Bertie W.....	2807 Locust street.
Dameron, Mary S.....	Belvedere Flats.
Dieckriede, Minnie.....	1613 Chouteau avenue.
Dunham, Ellen E.....	2631 Pine street.
Englesing, Nora.....	2709 Washington avenue.
Englesing, Edith E.....	2709 Washington avenue.
Flagg, Mary W.....	Moro, Ill.
Gamble, Minnie.....	3526 Olive street.
Holland, Ada R.....	Glendale, Mo.
January, Jeannette.....	3546 Lindell avenue.
January, Edith.....	3546 Lindell avenue.
Kauffman, Frances P.....	2818 Gamble street.
Knapp, Nellie.....	818 Gratiot street.
Lewis, Rebecca E.....	3014 Morgan street.
Lipscomb, Martha A.....	3128 Pine street.
Mathey, Ilda.....	1021 Dolman street.
Magruder, Susie I.....	2923 Washington avenue.
McPheeters, Fannie W.....	3452 Pine street.
McKittrick Mattie.....	2913 Locust street.
Myers, Sarah.....	3517 Pine street.
Nicholson, Helen.....	1108 Garrison avenue.
Offutt, Maggie C.....	3015 Thomas street.
Parrish, Lillie K.....	3410 Washington avenue.
Payne, Fannie F.....	514 West End Place.
Prather, May.....	1411 Chouteau avenue.
Pierce, Nellie.....	Shiloh, Ill.
Rogers, Mary.....	3220 Washington avenue.
Reynolds, Laura Queen.....	3252 Pine street.
Sterling, Hildegard.....	1318 Chouteau avenue.

NAME.	RESIDENCE.
Shepley, Annie...	1518 Washington avenue.
Tower, Mattie I.	Compton Hill.
Teasdale, Jessie M.	2303 Park avenue.
Taussig, Agnes A.	1009 Gratton street.
Vimont, Floy.	2919 Lucas avenue.
Wright, Anna.	2937 Washington avenue.
Walker, Etta.	3416 Washington avenue.
Woods, Rebecba B.	2907 Chestnut street.
Woods, Isabel.	506 West End Place.
	Total, 44.

FIRST PREPARATORY CLASS.

Asker, Hilda.	1305 Hickory street.
Bell, Grace M.	2819 Lucas avenue.
Bartlett, Hattie G.	3018 Glasgow Place.
Boyd, Lulu C.	2215 Olive street.
Carpenter, Annie E.	809 Tayon avenue.
Calhoun, Lucy.	2705 Lucas avenue.
Carkener, Antoinette.	3329 Washington avenue.
Clarke, Rowena.	Woodlawn. Mo.
Drew, Dora.	Webster Groves.
Gauss, Emma J.	{ California av. between Park and Lafayette.
Johnson, Lizzie L.	2131 Locust street.
Johnson, Henne B.	2613 Pine street.
Kalb, Julia.	Fair Grounds Cottage.
Kohn, Constance.	3525 Pine street.
Miller, Grace M.	3208 Pine street.
Mansur, Nellie B.	1104 Morrison avenue.
Magruder, Mary L.	2923 Washington avenue.
Niedringhaus, Mollie.	{ Cor. Garrison & Frank- lin avenues.
Orr, Mamie A.	3223 Lafayette avenue.
Richards, Ellen.	2608 Locust street.
Rosenheim, Clara.	3042 Locust street.

NAME	RESIDENCE.
Rude, Tillie.....	522 High street.
Stanard, S. Ella.....	3629 Lindell avenue.
Stahlberg, Sadie.....	1228 Linn street.
Smith, Mary B.....	Carondelet.
Taussig, Arabelle.....	1223 Dolman street.
Thompson, Mattie S.....	2709 Morgan street.
Tompkins, Louisa L.....	Woodlawn, Mo.
Wilson, Julia L.....	2706 Locust street.
Williams, Annie.....	2930 Laclede avenue.
Total, 30.	

SECOND PREPARATORY CLASS.

Boyd, Maggie C.....	2215 Olive street.
Brookmire, Daisy.....	2733 Lucas avenue.
Bell, Ella.....	2819 Lucas avenue.
Bryden, Annie.....	2816 Gamble street.
Buck, Gertrude.....	Grand av. & Chestnut st.
Capen, Fannie I.....	912 Garrison avenue.
Crane, Sallie.....	829 Tayon avenue.
Crandall, Lena K.....	Laclede Hotel.
Dryden, Annie M.....	Miami & California av.
Duncan, Nettie L.....	2931 Pine street.
Gregg, Orie L.....	3031 Pine street.
Henry, Maud.....	Natural Bridge Road.
Johnson, Eugenia V.....	2131 Lucas Place.
Krum, Mary F.....	2732 Washington avenue.
Kayser, Charlotte J.....	1420 Lucas Place.
Lackland, Mary S.....	3552 Lindell avenue.
Lewis, Annie E.....	3014 Morgan stre
Mathews, Nina.....	Oakland station, Mo.
O'Fallon, Carrie R.....	2654 Locust street.
O'Fallon, Hallie L.....	3600, Delmar avenue.
Pope, Anna E.....	1503 Chouteau avenue.
Peter, Jessie F.....	3544 Lindell avenue.
Papin, Hattie.....	Webster Groves.

WASHINGTON UNIVERSITY.

NAME	RESIDENCE.
Ritter, Emma.....	2014 Morgan street.
Ridgely, Mary Lee.....	2631 Washington avenue.
Smith, Jessie M.....	2203 Olive street.
Scudder, Sarah J.....	3623 Olive street.
Tennent, Mary H.....	3126 Lucas avenue.
Wilson, Mamie J.....	2706 Locust street.
Winston, Ada L.....	2227 Olive street.
Watson, Mary L.....	2920 Gamble street.
Westerman, Lydia A.....	1926 Carr street.
Waters, Sadie P.....	2309 Locust street.
Total, 33.	

THIRD PREPARATORY CLASS.

Alexander, Mary V.....	3537 Lindell avenue.
Barney, Maggie M.....	Lindell Hotel.
Barton, Fannie M.....	Beaumont Flats.
Ballenger, Grace.....	3405 Pine street.
Cole, Hallie R.....	1728 Lucas Place.
Cabanne, Susie P.....	Union avenue.
Doughaday, Annie C.....	3417 Pine street.
Duncan, Mamie E.....	2931 Pine street.
Dougherty, Jessie.....	2716 Olive street.
Dieckriede, Adele.....	1613 Chouteau avenue.
Evans, Imogene.....	1434 Francis street.
Ernst, Helen.....	2822 Locust street.
Franciscus Jennie.....	3200 Lafayette avenue.
Gould, Lizzie J.....	Compton Hill.
Goddard, Alice H.....	3131 Lucas avenue.
Guye, Lillie.....	2004 Lafayette avenue.
Houser, Lillie B.....	1624 Chouteau avenue.
Keiser, Bettie L.....	2227 Olive street.
Lane, Myra R.....	3640 Baker avenue.
Lodge, Lizzie D.....	1827 S. Park Place.
Mitchell, Sallie B.....	2648 Washington avenue.
Niccolls, Grace.....	2651 Washington avenue.

NAME.	RESIDENCE.
Nisbet, Fannie S.....	1123 Compton avenue.
Nisbet, Lucy H.....	1123 Compton avenue.
Post, Harriet M.....	3121 Lucas avenue.
Scudder, Mary H.....	3623 Olive street.
Sprague, Lulu B.....	1701 Washington avenue.
Sterling, Edith.....	1318 Chouteau avenue.
Sharp, Daisy.....	703 Garrison avenue.
Turner, Susie V.....	1706 Lucas Place.
Turner, Julia.....	Normandy.
Tutt, Jessie D.....	2918 Locust street.
Whitelaw, Emma.....	2027 Park avenue.
Wulfling, Helen.....	1919 Gratiot.
Total, 34.	

FOURTH PREPARATORY CLASS.

Boeck, Nellie L.....	2717 Mill Street.
Burr, Eliza M.....	3412 Morgan street.
Bowman, Belle B.....	2741 Locust street.
Barns, Lucy D.....	1504 Webster avenue.
Breckinridge, Lillie L. P.....	2303 Olive street.
Case, May B.....	3129 Chestnut.
Cohn, Rosa.....	2310 Carr street.
Copelin, Mary, M.....	Compton Hill.
Chadbourne, Naney.....	2650 Washington avenue.
Cole, Rebecca.....	1728 Lucas Place.
Donaldson, Alby E.....	2824 Locust street.
Eliot, Ada.....	2635 Locust street.
Edgar, Laura.....	2936 Pine street.
Emmons, Margie.....	Cabanne Station.
Fallon, Cora M.....	2800 Locust street.
Gibbs, Addie S.....	2138 Eugenie street.
Goddard, Jennie P.....	2217 Olive street.
Gildehaus, Lillie C.....	1910 Gratiot street.
Gauss, Louisa.....	{ California ave., between Park and Lafayette.

NAME.	RESIDENCE.
Haas, Mary A.....	Mary Institute.
Kingsland, Bessie T.....	3114 Lucas avenue.
Kalb, Laura P.....	Fair Grounds Cottage.
Lane, Emma.....	3640 Baker avenue.
Moore, Laura P.....	2730 Lucas avenue.
Pocock, Annie M.....	3107 Bell street.
Pope, Carrie F.....	1503 Chouteau avenue.
Richards, Theo. T.....	Grand & Franklin ave.
Rowland, Bella A.....	2910 Morgan street.
Tennent, Katie.....	3126 Lucas avenue.
Updike, Maggie H.....	3120 Chestnut street.
Williams, Carrie.....	2930 Laclede avenue.
Wells, Louisa H.....	3429 Lucas avenue.
West, Bettie Y.....	2901 Dayton street.
Total, 33.	

PRIMARY CLASS.

Barns, Lora A. H.....	1504 Webster avenue.
Bell, Bessie.....	2826 Dayton Street.
Bell, Madge.....	2826 Dayton street.
Branch, Annie B.....	1316 Glasgow Place.
Butler Fannie.....	Rose Hill.
Childs, Mary B.....	3612 Chestnut street.
Corbitt, Katie.....	1812 Wash street.
Chadbournne, Lucy.....	2650 Washington avenue.
Davidson, Annie.....	3100 Morgan street.
Daughaday, Ella.....	3417 Pine street.
Dieckriede, Ottilla.....	1613 Chouteau avenue.
Elliot, Margie.....	2635 Locust street.
Eaton, Mary G.....	2901 Washington avenue.
Ernst, Bessie.....	2822 Locust street.
Franklin, Edith.....	1750 McNair avenue.
Ferguson, Sadie N.....	2603 Chestnut street.
Gauss, Mary.....	Compton Hill.
Gay, Sallie Belle.....	2928 Washington avenue.

NAME	RESIDENCE.
Goddard, Abby.....	2920 Gamble street.
Good, Jane S.....	2136 Clark avenue.
Gould, Grace A.....	3457 Chestnut street.
Grether, Maggie.....	2804 Washington avenue.
Harriss, Annie, Belle Lee.....	2342 Olive street.
Haas, Lizzie.....	Mary Institute.
Hospes, Minnie.....	1623 Salisbury street,
Jordan, Ettie.....	1202 Chambers street.
Kehlor, Jessie.....	3606 Vandeventer Place.
Kehlor, Josie.....	3606 Vandeventer Place.
Kennard, Sa'Lees.....	703 Garrison avenue.
Krum Clara.....	2732 Washington avenue.
Lane, Belle.....	3640 Baker avenue.
Lane Josephine.....	3640 Baker street.
Lindsley, Mary.....	3030 Morgan street.
Louderman, Leonora.....	1217 Dolman street.
Lipscomb, Mary St. Clair.....	3118 Pine street.
Lipscomb, Susan Cowgill.....	3118 Pine street.
McLure, Mary.....	2645 Pine street.
Macdonald, Nellie.....	2706 Lucas avenue.
Nicholson, Mary.....	1108 Garrison avenue.
Obear, Mary.....	Compton Hill.
Pearce, Eliza.....	2207 Lucas Place.
Pocock, Jessie.....	3107 Bell street.
Scudder, Belle.....	2623 Olive street.
Snyder, Clara.....	3033 Morgan street.
Stockbridge, Mae.....	615 N. 19th street.
Turner, Nancy.....	Normandy.
Wear, Mildred.....	3027 Morgan street.
Wells, Bella.....	Wellsville.
White, Chloe Belle.....	3926 Lucas avenue.
Willich, Daisy.....	807 Catalpa street.
Wulfig, Alicice.....	1919 Gratiot street.

Total, 51.

COURSE OF STUDY.

PRIMARY DEPARTMENT.

In this department careful instruction is given in the elementary studies usually pursued in schools of this grade. The course begins with the earliest studies of children, and includes Reading, Writing, Drawing, Geography, and the simple processes in oral and written Arithmetic. It is intended to secure such an alternation of study with physical exercises and singing as is suited to the age of the pupils.

PREPARATORY DEPARTMENT.

FOURTH PREPARATORY CLASS.

FIRST TERM.

English Language.—Reading and Spelling.

Geography.—Guyot's Intermediate.

Mathematics.—Peck's Arithmetic; Fraction; Stoddard's Intellectual.

Writing.—Begun and continued through the course.

Drawing.—Begun and continued through the course.

French.—Chouquet's First Lessons.

Vocal Music.—Sight reading.

SECOND TERM.

English Language.—Reading and Spelling.

Geography.—Guyot's Intermediate; Blackboard Exercises.

Mathematics.—Peck's Arithmetic; Stoddard's Intellectual.

French.—Chouquet's First Lessons; Florian.

Music.—Continued.

THIRD PREPARATORY CLASS.

FIRST TERM.

English Language.—Reading and Spelling.

History.—Read Grandfather's Chair.

Geography.—Guyot's Intermediate Geography, with Oral Instruction and Outline Maps. Begin with Europe.

Mathematics.—Peck's Arithmetic, beginning with Decimal Fractions; Stoddard's Intellectual.

French.—Chouquet's First Lessons; Florian.

Music.—As above.

SECOND TERM.

English Language.—Reading and Spelling.

Geography.—As found in History of United States.

History.—Read Grandfather's Chair.

Mathematics.—Written Arithmetic; Oral, continued.

French.—Chouquet's First Lessons; Florian.

Music.—Continued.

SECOND PREPARATORY CLASS.

FIRST TERM.

English Language.—Reading, Spelling and Tower's Elements of Grammar.

Geography.—Text Book, with Drawing Maps on the Blackboard. Begin with South Atlantic States.

History.—Read Sewell's History of Rome.

Mathematics.—Stoddard's Intellectual Arithmetic; Peck's beginning with Compound Numbers.

French.—Duffet's French Literature; Florian.

SECOND TERM.

English Language.—Reading, Spelling and Grammar.

Geography.—Guyot's Intermediate, reviewed.

History.—Read Sewell's History of Rome.

Mathematics.—Stoddard's Intellectual Arithmetic; Peck's.

French.—As above.

Music.—Continued.

FIRST PREPARATORY CLASS.

FIRST TERM.

English Language.—Reading and Spelling; Leed and Kellog's Lessons in English Grammar.

History.—Higginson's United States; Geography.

Mathematics.—Stoddard's Intellectual Arithmetic; Peck's, beginning Compound Numbers.

French.—As above. Use Masson's Dictionary in this and subsequent classes.

Music.—As above.

SECOND TERM.

English Language.—Reading and Spelling; Graded Lessons in English Grammar.

History.—Higginson's United States; Geography.

Botany.—Oral Instruction and Analysis.

Mathematics.—Stoddard's Intellectual Arithmetic; Peck's.

French.—As above.

Music.—Continued.

ACADEMIC DEPARTMENT.

FIFTH ACADEMIC CLASS.

FIRST TERM.

English Language.—Reading, Spelling and Defining; Higher Lessons in English.

Geography.—Guyot's Common School.

History.—Read Dickens' England.

Mathematics.—Stoddard's Intellectual; Peck's Percentage.

French.—Fasquelle's First Course; La Fontaine; Duffet's French Literature.

Music.—Elementary Instruction; Simple Solfeccio.

Drawing.—Study of Perspective; Sketching simple objects.

SECOND TERM.

English Language.—Reading, Spelling and Defining; Higher Lessons in English.

History.—Dickens' History of England, with study of Geography and Biography.

Botany.—Oral Instruction and Analysis.

Mathematics.—Oral and Written Arithmetic continued.

French.—As above.

Music.—Continued.

FOURTH ACADEMIC CLASS.

FIRST TERM.

English Language.—Grammar continued.

History.—St. Ouen's Histoire de France, or Barnes's Brief History.

Mathematics.—Arithmetic, Oral and Written.

Latin.—Harkness's Introductory Latin Book; Oral and Written Exercises in translating English into Latin, throughout the course.

French.—Keetel's Grammar; La Fontaine; Duffet's French Literature.

Music.—As above.

Drawing.—Study of Perspective; Sketching simple objects.

SECOND TERM.

English Language.—Read and Study a Poem.

History.—Same as above.

Mathematics.—Algebra begun.

French.—As above.

Music.—Continued.

Drawing.—Continued.

THIRD ACADEMIC CLASS.

FIRST TERM.

History.—Freeman's Outlines, with Geography.

Mathematics.—Algebra.

Latin.—Harkness's Grammar and Reader, (old edition.)

Physiology.—Huxley and Youman's.

French.—Keetel's Grammar Littérature Contemplorative; La Fontaine; Poètes Français by dictation.

Music.—Sight reading; Solfeggio; First principles of harmony.

Drawing.—Study of Form; Sketching.

SECOND TERM.

History.—Freeman's Outlines, with Geography.

Mathematics.—Algebra.

Latin.—Grammar and Reader.

Natural History.—Botany.

French.—As above.

Drawing.—Study of Form; Sketching.

Music.—Continued.

SECOND ACADEMIC CLASS.

FIRST TERM.

English Language.—Shakesperian Reading.

Mathematics.—Geometry.

Latin.—Cæsar; Antiquities.

Physics.—Natural Philosophy.

Geography.—Review.

Rhetoric.—Hart's Composition and Rhetoric; English Grammar reviewed.

French.—Keetel's Grammar; *Littérature Contemporaine*; La Fontaine; Molière by dictation.

Drawing.—Study of Light and Shade; Cast Drawing.

Music.—As above.

SECOND TERM.

English Language.—Shaksperian Reader; Trench's Study of Words.

Mathematics.—Geometry. Arithmetical reviewed.

Latin.—Cicero; Mythology.

History.—Review United States.

Chemistry.—Youmans' Class Book.

French.—As above.

Drawing.—As above.

Music.—Continued.

FIRST ACADEMIC CLASS.

FIRST TERM.

English Language.—Shaksperian Reader.

History.—Green's History of the English People.

Belles-Lettres.—Collier's English Literature.

Astronomy.—Lockyer's Elementary.

Latin.—Æneid.

French.—*Littérature*; Translate Vicar of Wakefield into French.

Drawing.—Study of Light and Shade; Cast Drawing.

Music.—Continued.

SECOND TERM.

Latin.—Æneid continued.

Natural Science.—Tenney's Geology.

Practical Science.—Martin's Civil Government.

History.—As above.

French.—*Littérature*; Translate Vicar of Wakefield into French.

Drawing.—Cast Drawing.

Music.—Continued.

ADVANCED COURSE.

Studies marked * are, with the approval of the Principal of the Institute and of the College Faculty, elective, and will usually be recited in the College classes. In the regular course the pupil may take both German and French, or may choose between them.

FIRST YEAR.

FIRST TERM.

History.—Smith's History of Greece.
English Literature.—Selected Reading; Themes.
Philosophy.—Hamilton's Metaphysics.
Physical Geography.—Guyot's Earth and Man.
Mathematics.—Trigonometry.*
Natural History.—Agassiz and Gould's Zoology.
French.—Literature; Conversation.
Latin.*
Greek.*
German.—Grammar.
Art.—Drawing from Nature; Biography of Artists.

SECOND TERM.

History.—History of Greece, continued.
English Literature.—Selected Reading; Themes.
Philosophy.—Hamilton's Metaphysics, continued.
Mathematics.—Analytical Geometry.
Natural History.—Agassiz's Methods of Study in Natural History.
French.—Literature; Conversation.
Latin.*
Greek.*
German.—Maria Stuart; Goethe's Egmont.
Physics.—Ganot's.*
Art.—Drawing; History of Schools of Art.

SECOND YEAR.

FIRST TERM.

History.—Bryce's History of the Roman Empire.

English Literature.—Schlegel's Dramatic Art and Literature;
Themes.

Political Economy.

Chemistry.—Roscoe's.*

Mathematics.—Mechanics.*

French.—Literature; Conversation.

*Latin.**

*Greek.**

German.—Goethe's Iphigenia auf Tauris; Goethe's Faust.

Physics.—Ganot's.*

SECOND TERM.

History.—Bryce's History of the Roman Empire, continued.

Philosophy.—Jouffroy's Ethics; Evidences of Natural and
Revealed Religion.

Astronomy.—White's.

Mathematics.—Mechanics.*

Physics.

French.—Literature; Conversation.

*Latin.**

German.—Lessing.

Vegetable Physiology.

Each pupil will be classed according to her attainments, and will be expected to pursue the prescribed studies of her class, except when excused by the Principal, who will be guided in this by the health and ability of the pupil. Young ladies, however, who may desire to prosecute special studies in the higher Academic or Advanced Classes, without taking the full course, can do so without interfering with the classification, by attending the recitations in those branches which they may elect. In such cases they will be excused from the other duties of the Institution, but the full tuition fee will be charged.

TUITION.

Primary Department, per term of 20 weeks....	\$35 00
Fourth Preparatory Class, " " " "	40 00
Third " " " "	45 00
Second " " " "	50 00
First " " " "	50 00
Fifth Academic " " " "	55 00
Fourth " " " "	60 00
Third " " " "	70 00
Second " " " "	80 00
First " " " "	80 00
Advanced " " " "	80 00

These charges are for the current year only.

NO EXTRAS WILL BE CHARGED, except for Instrumental Music and Painting.

Graduates of this Institution are admitted to the Advanced Class without charge for tuition.

N. B.—No pupils will be received for less than one term, and no abatement in tuition will be made for absence, whether such absence occur at the beginning, middle, or end of the term.

BOARD.

Board may be found in good families on reasonable terms. Any persons willing to take young ladies as boarders are requested to leave their names and residences with some member of the Faculty.

For more particular information in respect to Mary Institute, reference may be made to the Principal or to any of the Faculty.

Such information can be given *at the present time* as will secure for pupils judicious care.

III.—THE COLLEGE.

FACULTY.

WM. G. ELIOT, *Chancellor,*
and Professor of Political Economy.

ABRAM LITTON,
Professor of Chemistry.

CALVIN S. PENNELL,
Professor of Mental and moral Philosophy.

SYLVESTER WATERHOUSE,
Professor of Greek.

CALVIN M. WOODWARD,
Professor of Mathematics and Applied Mechanics.

GEORGE E. JACKSON,
Professor of Latin.

MARSHALL S. SNOW,
Dean, and Professor of History.

WM. B. POTTER,
Professor of Mining and Metalleurgy.

DENHAM ARNOLD,
Principal of Smith Academy.

JOHN H. JENKS,
Professor of Physiology.

JAMES K. HOSMER,
Professor of English and German Literature.

FRANCIS E. NIPHER,
Professor of Physics.

JOHN K. REES,
Professor of Mathematics and Astronomy.

STUDENTS.

SENIOR CLASS.

NAMES.	RESIDENCE.
Mense, Charles Wood.....	3104 Morgan street.
Von Schrader, Otto Ulrich.....	1315 Garrison avenue.
Webb, David Castleman.....	3523 Olive street.

JUNIOR CLASS.

Greve, Alfred.....	1912 Franklin avenue.
Jackson, Edward Fisher.....	3658 Washington avenue.
Lafin, Sylvester Hall, Jr.....	2834 Olive street.

SOPHOMORE CLASS.

Gazzam, Joseph Parker.....	2810 Pine street.
Gerney, John Axel.....	1524 Cass avenue.
Kaime, Benjamin Eaton.....	3137 Franklin avenue.
Kellenberger, Edith S.....	Alton, Ill.

FRESHMAN CLASS.

Burnam, John Miller.....	2919 Laclede avenue.
Hubble, John Powell.....	3625 Page avenue.
Knox, Prevost Mason.....	2628 Washington avenue.
McKittrick, Thomas.....	2913 Locust street.
Norris, Frances C....	917 Mound street.
Offutt, Marshall McIlhaney.....	3015 Thomas street.
Orr, William Anderson.....	3223 Lafayette avenue.
Rumbold, Frank Meeker.....	1225 Washington avenue.
Rychlicki, Wladislas Hugh.....	} King's Highway and Page avenue.
Tilden, Grant.....	
Wilson, George Rogers.....	1508 Morgan street.

STUDENTS NOT CANDIDATES FOR A DEGREE.

NAME.	RESIDENCE.
Kennett, Kenneth Wilson.....	1520 Lucas Place.
Shapleigh, Alfred Lee.....	1229 Washington av.
Tallman, Maria E.....	944 Chouteau avenue.
Worthington, Andrew Kennedy.....	Pittsfield, Ill.

TIMES AND CONDITIONS OF EXAMINATION FOR
ADMISSION.

The regular examination of candidates for admission to the College will take place at University Hall, corner of Washington avenue and Seventeenth street, on *Monday and Tuesday, June 7 and 8, 1880*. Candidates will present themselves in Room No. 10 of the east wing, at 9 o'clock, A. M.

Every student not coming from the Academy must produce, before examination, proper testimonials of good moral character; and, if from another institution, a certificate of dismission in good standing.

Candidates for admission to the Freshman Class will be examined in the following books:

LATIN.

Cæsar's Commentaries, four books; the Æneid of Virgil, to Book VII; Cicero's Select Orations, Harkness's Grammar, including Prosody; Writing Latin.

GREEK.

Goodwin's or Felton's Reader; Goodwin's or Crosby's Grammar, including Prosody; Writing Greek, with the accents.

GERMAN.

Grammar and Reader; William Tell.

MATHEMATICS.

Arithmetic; Algebra, through Quadratics; Davies's Legendre, six books.

GEOGRAPHY AND HISTORY.

Modern and Ancient Geography; History of Greece and Rome. [Smith's or Pennell's Short Histories.]

ENGLISH COMPOSITION.

The student will be expected to write a short composition upon some subject connected with the History of Greece or Rome.

The subjects for examination on the first day will be—Latin, Greek, Arithmetic and Algebra.

On the second day—Geometry, German, History, English Composition.

NOTE.—Instead of the prescribed text-books, *real* equivalents will be accepted.

COURSE OF STUDY.

The studies of the Freshman year and the first term of the Sophomore year are all required. Certain studies are *elective* during the second term of the Sophomore year, and during the Junior and Senior years, as indicated below.

All election of studies is subject to the approval of the College Faculty, and a request for such election must be presented in writing at the beginning of each term.

FRESHMAN CLASS.

FIRST TERM.

Latin.—Livy.

Greek.—Felton's Greek Historians; Exercises in writing Greek.

Mathematics.—Geometry, completed.

History.—England.

German.—German Prose and Composition.

Elementary Ethics.

Themes and Declamation.

SECOND TERM.

Latin.—Horace.

Greek.—Panegyricus of Isocrates; Homer; Exercises in writing Greek.

Mathematics.—Higher Algebra.

History.—England.

German.—German Prose and Composition.

Themes and Declamation.

SOPHOMORE CLASS.

FIRST TERM.

Latin.—Cicero's Tusculan Disputations.

Greek.—Demosthenes de Corona.

Mathematics.—Trigonometry.

History.—France.

French.—Grammar; French Prose.¹

Themes and Declamation.

SECOND TERM.

REQUIRED STUDIES:

Latin.—Juvenal; Terence; Plautus.

Mathematics.—Analytical Geometry.

Physics.—Ganot's.

History of English Literature.—(Lectures.)

French.—Grammar; French Prose.

Themes and Declamation.

ELECTIVE STUDIES:

Greek.

History.

JUNIOR CLSS.

FIRST TERM.

REQUIRED STUDIES:

Chemistry.—Roscoe's.

History.—France. Read in the original some French author.

Rhetoric.—Lectures and Recitations; Study of Anglo-Saxon and Old English. Themes.

Modern Languages.—German.

ELECTIVE STUDIES:

Latin.—Tacitus or Quintilian.

Greek.—Thucydides; Antigone of Sophocles.

Mathematics.—Analytical Geometry and Calculus.

Physics.

SECOND TERM.

REQUIRED STUDIES:

Mechanics.—Statics; Dynamics.

Mineralogy and Geology.—(Lectures and Recitations).

Philosophy.—Jevons's Logic.

History.—Read, in the original, some French author. History of French Literature. (Lectures.)

Modern Languages.—German.

Themes; Orations.

ELECTIVE STUDIES:

Mathematics.—Differential and Integral Calculus.

Chemistry.—Continued.

Ancient Languages.—Latin; Greek.

SENIOR CLASS.

FIRST TERM.

REQUIRED STUDIES:

Astronomy.

Philosophy.—Hamilton's Metaphysics; (Recitations and Lectures).

History.—Germany. Reading from French authors.

English Literature.—Reading of Chaucer, Shakspeare, Spenser, Milton, etc. Stopford Brooke's Primer of English Literature; Dowden's Primer of Shakspeare; (Recitations and Lectures;) Themes.

Modern Languages.—German.

ELECTIVE STUDIES:

Ancient Languages.—Latin; Greek.

Practical Chemistry.

SECOND TERM.

REQUIRED STUDIES:

Ethics.—(Recitations and Lectures.)

Political Economy.—Bowen; Rogers; Mill; Carey.—(Recitations and Lectures.)

History.—Constitutional History of England; U. S. Constitution; Elements of International Law.—(Recitations and Lectures.) Read some French author.

English Literature.—Taine; Brooke; Dowden; Readings; Lectures.

Modern Languages.—German.

Physiology.—Lectures.

ELECTIVE STUDIES:

Ancient Languages.—Latin; Greek.

Practical Chemistry.

EXAMINATIONS.

The instruction is by recitations and lectures, and the student's progress is tested by frequent and thorough written examinations.

UNIVERSITY LECTURES.

A LECTURE ENDOWMENT Fund amounting to twenty-seven-thousand dollars (\$27,000), was created in 1875 by one of the early friends of the University, MR. WILLIAM HENRY SMITH, now a resident of Alton, Ills. It was given without any restrictions, except that the fund should be increased, if practicable, by accruing interest, to \$30,000, which has been accomplished, and that no part of the principal should be expended. The income is now used for the support of lectures, with a view to the advancement of the interests of the University and the benefit of the public. The lectures will be free, so far as practicable, but an admission fee is charged when circumstances require.

Some of these lectures are given in the Hall of the University to the general public; others, which may be called "*Class-Room*" or "*Instruction Lectures*," are given in smaller rooms,

or in the Laboratories, to classes limited in number according to the nature of the subject treated, and are designed to furnish to all persons, instruction similar to that given in the class room work of the College and Polytechnic school,

LIBRARY AND READING ROOM.

Room No. 10 of the College is used as a reference library and reading room. Here all necessary books of reference are provided, and also a good selection of the periodical literature of this country and of England. No attempt is made at present to gather a general library.

Through the liberality of a number of citizens of St. Louis, an arrangement has been made by which the privilege of using the Mercantile Library has been extended, under prescribed conditions, to such members of the University as may be designated by the Chancellor.

GYMNASIUM.

A gymnasium for the use of the students of the College and the Polytechnic School has been erected on the grounds of the University. It contains a bowling-alley and the ordinary apparatus for gymnastic exercises. A competent instructor gives regular training to the classes.

PAPER AND DEBATING SOCIETY.

A paper called "*Student Life*" is published monthly by the students of the University, and a society called the "*Washington University Debating Society*," managed by the students of the College and the Polytechnic School, holds weekly meetings.

Every possible aid is given by the Faculty to all such efforts to increase the usefulness and attractiveness of the University.

SCHOLARSHIPS.

The payment of *one thousand dollars* entitles the contributor to found a scholarship, under which he may send one pupil each year, *for twenty-five years*, to the Academy, the College or the Polytechnic School. About forty such scholarships have been founded, and their whole number is limited to fifty.

Several of these scholarships have been founded with the view of filling them with students who are unable to pay the usual fees.

One *perpetual* scholarship, founded by the payment of \$5,000, and entitling the holder to all the advantages of all the Departments of the University forever, has been placed at the disposal of the Mercantile Library Association, with the recommendation "that when applicants for the scholarship are of equal merit, the preference shall be given to one from some mechanical pursuit."

One scholarship is also held by the ST. LOUIS HIGH SCHOOL, which entitles the student to free admission to the College, in accordance with a resolution of the Board of Directors when the College was organized.

A Trust Fund of \$30,000 has been accepted by the University, from the WESTERN SANITARY COMMISSION, for the establishment of TWENTY FREE SCHOLARSHIPS, in the College or the Polytechnic School, to be filled by children of descendants of Union soldiers who served in the late civil war. In default of such applicants, candidates will be appointed by the University Board of Directors, after examination by the Faculty. Preference is given to those in straitened circumstances, *and no student is accepted or continued who is not of good moral character, who does not sustain satisfactory examinations, or who fails to comply with the rules of the Institution.*

From the same source a SUSTENTATION FUND of \$10,000 has been accepted, the income from which is expended for the aid of students in straitened circumstances, giving preference always to the descendants of Union soldiers, as above.

DEGREES.

The degree of Bachelor of Arts is granted to those students who complete the full course of study; but no diploma is granted except after full examination of each applicant in all the studies for which the diploma is given.

The diploma fee is three dollars, payable in advance.

The degree of Master of Arts is conferred upon graduates of three years' standing, who present a satisfactory thesis on some

subject of their own selection; the thesis to be sent to the Chancellor on or before the first day of June.

The diploma fee is five dollars, payable in advance.

VACATIONS.

There is a winter vacation of eight days at Christmas, and a summer vacation following Commencement. See calendar, page 3.

A handsome bequest has been received from a lady, with the condition that the *second Friday of May* shall be a perpetual holiday in the Institution.

TUITION.

A matriculation fee of five dollars is charged, payable in advance.

The tuition in the College, for the present year, is \$50 per term of twenty weeks, payable in advance, if required, and always before the middle of the term, at the office of S. A. Ranlett, Treasurer of the University, 513 Olive street.

N. B.—No students will be received for less than one term, and no abatement will be made for absence, whether such absence occur at the beginning, middle or end of the term.

(For tuition in Polytechnic School to graduates of the College, see page 15.)

IV.—O'FALLON POLYTECHNIC INSTITUTE.

OR

POLYTECHNIC SCHOOL.

FACULTY.

WM. G. ELIOT, D. D.,
Chancellor.

ABRAM LITTON,
Professor of Chemistry.

CALVIN M. WOODWARD, *Dean,*
Professor of Mathematics and Mechanics.

MARSHALL S. SNOW,
Professor of History.

WM. B. POTTER,
Professor of Mining and Metallurgy.

DENHAM ARNOLD,
Principal of Smith Academy.

CHARLES A. SMITH,
Professor of Civil and Mechanical Engineering.

JOHN H. JENKS,
Professor of Physiology.

JAMES K. HOSMER,
Professor of Modern Literature.

FRANCIS E. NIPHER,
Professor of Physics.

HALSEY C. IVES,
Professor of Drawing and Design.

J. K. REES,
Professor of Mathematics and Astronomy.

CHAS. F. WHITE,
Superintendent of Work Shops.

EDMUND A. ENGLER,
Instructor in Descriptive Geometry.

ALEXANDER LEONHARD,
Instructor in Assaying and Metallurgy.

GUSTAV HAMBACK,
Instructor in Botany.

HOWARD KRETSCHMAR.
Instructor in Modeling.

T. B. ANNAN,
Instructor in Architectural Drawing.

STUDENTS.

SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
Comstock, Wm. O. Jr. (iv.)	*Greenfield, Mass.	207 S. 14th st.
Nicholson, Frank, (iv)	.....Weathersford, Tex.	207 S. 14th st.

JUNIOR CLASS.

Abend, Alexander E. (i)	....Belleville.	1512 2d C'delet av.
Bryan, William H. (ii)	.....Washington, Mo.	1909 Cass St.
Burnet, Samuel F. (iv)	....Carondelet.	112 N. 14th st.
Flad, Edward (i)	.....St. Louis.....	1119 Valle av.
Hall, Edmnud (vi)	.....St. Louis.....	3609 N. 9th st.
Jaynes, William V. (vi)	....Sedalia, Mo.....	2647 Wash'tn av.
Monell, Joseph (iv)	.....St. Louis.....	319 N. 7th st.
Newington, Harry M. (v)	...St. Lonis.....	1321 Pine st.
Parker, Russell (iv)	.....Oak Hill.....	Oak Hill.
Perkins, Nathan W., Jr. (ii)	St. Louis.....	1503 Chestnut st.
Raeder, Oscar W. (v)	.....St. Louis.....	1905 Warren st.
Ritterskamp, L. H. (iv)	(A.B. 1879).St. Louis.	2341 State st.
Russell, S. Bent. (iv)	.....Oak Hill.....	Oak Hill.
Shaub, Julius W. (i)	.....St. Louis.....	1512 2d C'delet av.
Young, Thomas C. (v)	...Grand Rapids, Mich.	1618 Olive.

SOPHOMORE CLASS.

Beattie, W. J.	.....St. Louis.....	2007 Eugenia st.
Gass, Frank W.	.....St. Louis.....	2129 Market st.
Glasgow, Julian K.	.....St. Louis.....	1510 Wash'tn av.
Herndon, Edward L.	.....St. Louis.....	2727 Morgan St.

*The Roman numerals after the names indicate the Courses of Study pursued by the Students, according to the arrangement on page 75.

POLYTECHNIC SCHOOL.

71

NAME.	RESIDENCE.	ROOM.
Hunicke, Henry August.....	St. Louis.....	922 Winter st.
Wangelin, Walter H.....	Belleville.....	Belleville.
Woodward, Edward K. Jr.,..	St. Louis.....	2315 Half st.

FRESHMAN CLASS.

Gaty, Theodore E.....	St. Louis.....	3409 Broadway.
Kinealy, James Ralph.....	St. Louis.....	Baden.
Knollenberg, Wm. E.	Jacksonville, Ill.	1321 Exchange st.
Lippman, Jennie R.....	St. Louis.....	1209 Dillon street.
Loewenstein, Meyer.....	St. Louis.....	214 S. Fourth st
McMillan, Matilda A.....	Miss.....	2813 Clark av.
Mudd, Seeley.....	Kirkwood.....	Kirkwood.
Perry, Richard E.....	St. Louis.....	2835 Pine street.
Preston, Wm. T.....	St. Louis.....	3104 Wash'ton av.
Stifel, Herman C.....	St. Louis.....	966 Chouteau av.
Stone, Cola E.....	St. Louis.....	1019 N. 16th st.
Vickroy, Wilhelm R.....	St. Louis.....	1117 N. 25th st.
Wise, Clift.....	St. Louis.....	3203 Pine st.
Yeatman, Pope.....	St. Louis.....	503 Ware avenue

STUDENTS NOT CLASSIFIED.

NAME.	STUDIES.	RESIDENCE.
Belcher, G. W. (A. B. 1871)	Higher Mathematics,	St. Louis.
Krall, G. W.....	{ Mechanics, Physics, Chemistry, }	.....Kirksville.
Leigh, G.....	Assaying.....	St. Louis.
Thatcher, W.....	Assaying.....	St. Louis.
Nolton, M.....	Assaying.....	St. Louis.
Wilson, E. A.....	Assaying.....	St. Louis.

SUMMARY.

Seniors.....	2
Juniors.....	15
Sophomores	8
Freshmen.....	14
Students not Classified.....	6
Total.....	45

CONDITIONS OF ADMISSION.

Candidates for the Freshman Class must be at least sixteen years old.

With the exception of graduates of colleges of good standing, all applicants for admission to any class will be examined in the following studies:

1. English Composition, including the use of Language, Spelling, Punctuation, Paragraphing, and the use of Capital Letters. Each applicant will be required to write a brief essay on an assigned subject. *A reasonable knowledge of composition will be held essential to the privilege of further examination.*

2. Physical and Modern Political Geography.

3. American History, up to the close of the war of 1812. White's Landmarks of English History, or an equivalent.

4. Arithmetic, including, besides Fractions and Denominate Numbers, the Metric System and Percentage.

5. Algebra, including Fundamental Rules, Factoring, Fractions, Simple Equations, Involution, Evolution, Radicals, Quadratic Equations.

6. Geometry, Plane and Solid, as much as is contained in the first six books of Chauvenet's Geometry (omitting the more unusual propositions).

7. Geometrical Drawing, as much as is contained in Warren's Draughting Instruments, or the first fifty pages of Mahan's Industrial Drawing. Drawings neatly finished by the students themselves, if done in India ink and on good drawing paper, may be presented as evidence of instrumental skill. Whatman's "Imperial" drawing paper may be used, and each sheet may be divided into four equal "plates."

8. Natural Philosophy, as much as is contained in the first half of Well's Natural Philosophy, or in Rolfe and Gillett's "Handbook of Natural Philosophy."

9. A knowledge of German (or of French) sufficient to enable one to read easy prose at sight.

10. Latin. The student must be able to construe a passage from the Latin Reader or from Cæsar.

Students whose age is twenty years and more are admitted to the Freshman class upon a less formal examination. It is however necessary to establish a reasonable probability that the applicant can do the work of the class.

Candidates for the Sophomore Class must be at least seventeen years old, and must pass a satisfactory examination upon the studies of the Freshman year, as well as upon the work just mentioned. Similar requirements will be made of students desiring to enter the Junior or Senior Classes. The regular times of admission are at the end of the Spring Term in June, and at the beginning of the Fall Term in September (see calendar); but students will be received at any time, provided they are prepared to enter existing classes. Students not qualified to enter this department will join the Preparatory Scientific classes in the Academy. (See page 31.)

The Faculty of the Polytechnic School have adopted the plan of a

DIVIDED EXAMINATION,

in accordance with which students who propose to enter the Freshman Class in the summer of 1881, may present themselves in June or September, 1880, for examination on the studies in which they are then proficient: provided, they are prepared to be examined on not less than four of the topics named in the conditions of Examination. A record of such examinations, will be kept, and when the same students present themselves the next year they will be credited with the work done at the first examination.

The examination for admission will occupy two days.

The subjects for examination the first day will be, English Composition, Physical Geography, Arithmetic, History and Algebra.

On the second day the subjects will be, Geometry, Natural Philosophy, German or French, Latin, and Drawing.

COURSES OF STUDY.

The regular courses of study and instruction in this school extend through four years, and generally they are intended to prepare students for professional work, either as engineers, chemists or architects. It is not assumed, however, that all who avail themselves of these advantages for professional study will actually become professional men. On the contrary, it is fair to expect that less than one-half of the professional graduates will ultimately adopt engineering in any one of its branches as their path of labor. But it is expected that those who complete any of the following courses of study will exhibit that mental discipline which enables one to undertake the solution of the problems of business life; and that they will possess such knowledge of the physical world as will fit them to turn to good account the wealth with which they are surrounded.

The best discipline is often secured through the agency of professional studies. Every such study has a practical bearing, and in a student's mind is invested with a strong sense of responsibility. The special merit of an "office" education,—i.e. the training to be gained in a lawyer's, a doctor's or an engineer's office, in the counting-room, or in a factory—is due to the fact that there the student deals with the problems of real and not ideal life. The obvious importance of every step in a process stamps it ineffaceably upon the mind. To a certain extent this is true of professional studies in a Polytechnic School.

On the other hand, our students are free from the cramping narrowness which is the characteristic demerit of a business training. At school, the professional student is led to the study of the finest examples of professional theory and practice, both

in the present and past ages, with the greatest possible range of subjects. The growth of mind under such cultivation is very great compared with that to be gained from the utmost familiarity with the petty details of a single ordinary office.

It is for these reasons that students looking forward to a non-professional, business life are often advised to follow some congenial course of professional study.

However, to meet the wants of those who desire a better knowledge of Physics, the Natural Sciences (so-called) and Modern Literature than is afforded in any one of the professional courses, a course of study in "SCIENCE AND LITERATURE" has been adopted. Its satisfactory completion entitles a student to the Degree of "Bachelor of Philosophy." Its requirements are thought to be fully up to those of the professional courses; this shows that though anxious to offer every inducement and facility for advanced education, the Faculty of the School believe in maintaining its high standard of scholarship and attainment.

Among other valuable features of this course of study will be noticed an excellent opportunity for the systematic study and practice of Art and Design. It is believed that the course in "Science and Literature" is suited to the wants of young women as well as young men.

The courses are six in number, viz:

- I. A COURSE IN CIVIL ENGINEERING.
- II. A COURSE IN MECHANICAL ENGINEERING.
- III. A COURSE IN CHEMISTRY.
- IV. A COURSE IN MINING AND METALLURGY.
- V. A COURSE IN BUILDING AND ARCHITECTURE.
- VI. A COURSE IN SCIENCE AND LITERATURE.

The studies are the same for all the courses during the Freshman and Sophomore years, but during the Junior and Senior years they diverge more or less, though certain branches still remain common.

Special students will be received in any of the courses, if it is made clear that such arrangements are the best for the students, and not prejudicial to the interests of the department. The distribution of studies and exercises is substantially as follows:

FRESHMAN CLASS.

FIRST TERM.

Mathematics.—Geometry (Chauvenet's) completed.

Physics.—(Ganot.) Pneumatics, Acoustics, Heat.

German.—Grammar and Reader.

History.—Civil Government; United States Constitution.

Free-Hand Drawing.

Mechanical Drawing.—From Flats and Models. Use of Scales, Tracing, and Construction of Plates, Lettering, etc.

English.—Declamation and Composition; Rhetoric.

Drawing (Study of Design) may be taken in place of *Shop-Work*.

Shop-Work.—Use of Carpenter's Tools; Construction of Trusses, Frames and Models.

Ethics.—Lectures.

SECOND TERM.

Mathematics.—Higher Algebra.

Physics.—(Ganot.) Heat continued, Optics,

French.—Otto's Grammar; French Prose.

Free-Hand Drawing.—Continued as First Term.

Descriptive Geometry.—Orthographic Projections, Problems of Points, Lines and Planes.

History.—England.

English.—Declamation and Composition; Shakspeare.

Shop-Work.—As First Term.

SOPHOMORE CLASS.

FIRST TERM.

Mathematics.—Plane and Spherical Trigonometry (Analytical Geometry begun.

Physics.—(Ganot.) Electricity, Magnetism and Meteorology; Laboratory Practice.

Descriptive Geometry.—Warped Surfaces; Tangency, Intersection of Surfaces; Construction of Paper and Zinc Models.

Theoretical Chemistry.—Roscoe's, with Lectures.

Practical Chemistry.—Eliot and Storer's Manual.

Free-Hand Drawing.—Machinery, Casts, etc.

Mechanical Drawing, Line and Brush Shading.

French.—Reading prose writers.

Shop-Work.—Turning of Wood; Construction of Models.

SECOND TERM.

Mathematics.—Analytical Geometry.

Surveying.—Chain and Compass Surveying; Leveling and Transit Surveying; Adjustment and Use of Instruments in the Field.

Descriptive Geometry.—Spherical and Isometric Projections; Shades and Shadows; Perspective.

Practical Chemistry.—Qualitative Analysis.

Mineralogy and Geology.—Lectures.

Free-Hand and Mechanical Drawing.—Machinery and Architecture; Original designs.

Physics.—Laboratory Practice.

Shop-Work.—Pattern-Making.

I.—COURSE IN CIVIL ENGINEERING.

JUNIOR CLASS.

FIRST TERM.

Mathematics.—Differential Calculus and Applications.

Descriptive Geometry.—Perspective. Applications to Masonry, Carpentry, and Machinery.

Civil Engineering.—Railway Curves, Turnouts, etc., (Henck's Field Book); Estimation of Volumes of Earth and Stone Work. Rankine's Applied Mechanics, Part II. Haupt's Engineering Specifications and Contracts.

Shop-Work.—Filing and Clipping.

Practical Chemistry.—Qualitative Analysis.

Drawing.—Models, Arches, etc.; Shading.

English Composition.

SECOND TERM.

Mathematics.—Integral Calculus; Analytic Mechanics.

Civil Engineering.—Railroad Engineering; Location of Roads, Estimation of Volumes, etc.; Field Work; Statics of Framework, and Cords of Equilibrium. Rankine's Applied Mechanics, Part II.

Masonry.—Practical stone cutting; Construction of Models in Plaster.

Drawing.—Machines, Profiles, Bridges, etc.

English.—Modern Literature.

Shop-Work.—Use of Machine Tools on Metals; Testing the Strength of Materials and of Frames.

SENIOR CLASS.

FIRST TERM.

Civil Engineering.—Rankine's Manual of Civil Engineering, supplemented by lectures following Baker, Bell, Winkler and Maxwell; and the use of Graphical Statics.

Mechanics.—Rankine's Applied Mechanics. Selections from Weisbach's Mechanics of Engineering.

Laboratory Practice.—Construction of Trusses and Ribs for Bridges and Roofs.

Drawing.—Of Constructions from Actual Measurement.

Astronomy.—White's Elements.

English.—Themes.

Shop-Work.—Forging, Screw Cutting, Drilling, Boring, etc.

SECOND TERM.

Civil Engineering.—Structures of Wood, Stone and Iron; Designing, Computing and Estimating Cost of the parts of Bridges, Roofs, etc.

Mechanics.—Kinematics, Principles of Mechanism, Dynamics.

Laboratory Practice.—Testing Strength of Structures; Photography.

Drawing.—Designs of Structures.

Political Economy.—Bowen, Rogers, Mill, Carey; (Recitations and Lectures.)

Practical Astronomy.—Use of Instruments; Determination of Time, Latitude and Longitude.

Shop-Work.—Welding and Tempering; Construction of a Machine.

English.—Graduation Thesis.

II.—COURSE IN MECHANICAL ENGINEERING.

JUNIOR YEAR.

FIRST TERM.

Mathematics.—Differential Calculus and Applications.

Descriptive Geometry.—Perspective Applications to Masonry, Carpentry, and Machinery.

Machinery.—Rankine's Applied Mechanics, Part II. Principles of Mechanism; Rankine's Machinery and Mill Work; Haupt's Engineering Specifications and Contracts.

Practical Chemistry.—Qualitative Analysis.

Shop-Work.—Testing Strength of Wood and Iron; Machine Work; Practical Stone-Cutting; Construction of Arches, etc.; Work in the Machine Shop.

Drawing.—Machinery and Models.

English Composition.—Themes.

SECOND TERM.

Mathematics.—Integral Calculus; Analytic Mechanics.

Machinery.—Rankine's Applied Mechanics, Part II; Gearing;

Rankine's Machinery and Mill Work.

Drawing.—Machine Drawing, continued.

English.—Modern Literature.

Shop-Work.—Continued.

SENIOR YEAR.

FIRST TERM.

Machinery.—Study of Different Machines; Strength of Materials.

Mechanics.—(Rankine's Applied Mechanics continued; Selections from Weisbach's Mechanics of Engineering.)

Drawing.—Of Working Machinery.

Astronomy.—White's Elements.

English.—Descriptions of Structures, etc.

Shop-Work.—Machine Work; Blacksmithing.

SECOND TERM.

Machinery.—Designing and Computing the Parts of Machines required to perform Particular Work; Construction and Management of Engines; Rankine's Prime Movers.

Mechanics.—Theoretic Study of the Prime Movers; Water-wheels and Engines; Stress, Kinematics; Theory of Mechanism; Dynamics.

Drawing.—Designs of Machines.

Political Economy.—Bowen, Mill, Rogers, Carey; (Recitations and Lectures.)

Shop-Work.—Construction of Machines.

English.—Graduation Thesis.

III.—COURSE IN CHEMISTRY.

JUNIOR YEAR.

Theoretical and Organic Chemistry.—Lectures.

Qualitative Analysis.—Fresenius, Gallaway, Eliot and Storer, and Bunsen.

Quantitative Analysis.—Fresenius.

Mineralogy.—Blowpipe Analysis and Determination of Species.

Geology.—Dana's, with Lectures.

Laboratory Practice.—From four to six hours daily.

English Composition.

SENIOR YEAR.

Chemistry, Analytical and Applied.—Daily instruction in the Laboratory. Actual Chemical Work, embracing Pharmaceutical Preparations for the Laboratory and Apothecary; Methods of Determining the Value of Drugs; Assays on Ores of Lead, Silver, Gold, Zinc, Antimony, Copper, Nickel, Cobalt, etc.; Examination and Analysis of Metals, Soils, and Ashes; Examination of Poisons, Uses and Value of Manures.

Political Economy.—Bowen, Mill, Rogers, Carey, Recitation and Lectures.

Themes.

Preparation of Thesis for Degree of Chemist.

IV.—COURSE IN MINING AND METALLURGY.

JUNIOR YEAR.

Mathematics.—Differential and Integral Calculus.

Descriptive Geometry.—Perspective. Applications to Masonry and Machinery.

Engineering.—Statics of Frames and Trusses; Strength of Materials, Beams, Girders, and Columns; Applications to Buildings and other structures; Hydrostatics and Hydrodynamics; Rankine's Applied Mechanics, Part II.

Chemistry.—Qualitative and Quantitative Analysis; Lectures and Laboratory Practice.

Geology.—Lithological, Cosmical, Physiographic, Historic and Dynamic.

Mineralogy.—Blowpipe Examination of Minerals.

Mining.—Modes of Occurrence of Useful Minerals; Examination of Mineral Lands, etc.

Mining Tools, Tunneling and Sinking Shafts, Timbering and Walling Mines.

Underground Transportation; Hoisting Engines, Cages, Cars, Man Engines, etc.

Visits to neighboring Coal, Iron, Lead and Zinc Mines.

Metallurgy.—General Metallurgy—Classification of Processes; Furnaces; Modes of Construction; Refractory Building Materials, Natural and Artificial; Manufacture of Fire-bricks, etc.

Nature of Combustion.

Draft—Natural and Artificial; Chimneys, Fans, Blowing Engines, etc.

Fuels—Classification of, and Methods of Computing Calorific Power; Manufacture of Charcoal, Coke, etc.

Special Metallurgy—Iron and Steel, Physical and Chemical Qualities; Description of Various Direct and Indirect Methods of Production; Preparation of Ores.

Blast Furnace—Form, etc.; Hot Blast Stoves; Lifts, etc.

Manufacture of Wrought Iron—Bloomeries, Forges, Rolling Mills, etc.

Manufacture of Steel—Puddled, Cementation, Cast, Bessemer Metal.

Visits to Iron and Steel Works, Forges, Rolling Mills, Foundries, etc.

Assaying.—Lectures and Laboratory Practice; Examination of Fuels and Refractory Materials.

Drawing.—Profiles; Crystals; Plans and Sections of Mines and Mining Machinery; Furnaces; Apparatus and Machinery of Smelting Works, etc.

English Composition.

SUMMER VACATION.

Memoir on some given subject, and Journal of Travels during the vacation to Mining or Metallurgical Districts.

SENIOR YEAR.

Mining.—Ventilation, Natural and Artificial; Measurement of Ventilation and Work done by Ventilators.

Accidents—Fires in Mines, etc.

Mechanical Preparation of Ores; Stamps, Mills, Separators, Jigging Machines, etc.; Washing and Dressing of Coal, etc. General Management of Mines, etc.

Engineering.—Prime Movers; Study of Water-wheels and Turbines; Steam Engines and Boilers; Designs and Estimates.

Chemistry.—Quantitative Analysis of Ores, Coals, Fire Clays, Pig Iron, Slags, etc.

Assaying.—Lectures and Laboratory Practice, Ores of Lead, Silver, Gold, Tin, Antimony, Copper, Nickel, Cobalt, Gold and Silver Bullion.

Economic Geology.—Occurrence and Distribution of Ores; Iron, Lead, Copper, etc.; Character, Uses and Distribution of Coal, Lignite, Peat, Petroleum, Salt, Clays, Building Stones, Fertilizers, etc.

Metallurgy.—Copper: Swedish, English and Mixed Methods; Extraction by Wet Way.

Zinc—English, Belgian and Silesian Processes; Manufacture of Oxide.

Lead—Description of Various Processes; Extraction of Silver from Lead; Pattisonage; Zinc Method; Cupellation.

Silver—Amalgamation; Smelting; Extraction by Wet Way.

Gold—Washing; Amalgamation; Smelting; Extraction by Wet Way.

Tin—Preparation of Ores; German and Cornish Methods of Extraction.

Metallurgy of Platinum, Aluminum, Mercury, Arsenic, Antimony, Bismuth, Nickel, Cobalt.

Examination of Metallurgical Works.

Blowpipe Analysis.—Quantitative; Lectures and Laboratory Practice; Assay of Ores of Gold, Silver, Lead, Copper, etc.

Mechanics.—Rankine's Applied Mechanics.

Drawing.—Machines, Furnaces, Mines, etc.

Projects.—Plans for the Establishment and Working of Mines and Smelting Works, under given conditions, with Drawings, Estimates and written Memoirs.

Graduation Thesis.

V.—COURSE IN BUILDING AND ARCHITECTURE.

JUNIOR YEAR.

Architectural Designs.—The Elements of Design; the Principles of Composition; Examination of Architectural Works.

Descriptive Geometry.—Perspective. Applications to Masonry, Carpentry, and Machinery; Groined and Cloistered Arches; Domes, Stairways, etc.

Mathematics.—Differential and Integral Calculus.

Practical Chemistry.—Qualitative Analysis.

Drawing.—Exercises in "Designing;" Plans, Elevations, Sections, and Details; Ornament Sketching from Buildings.

English.—Composition.

Shop-Work.—Chipping, Filing, Planing and Turning Metals.

Modeling.—Architectural Forms.

SENIOR YEAR.

Architecture.—Composition; History of Architecture; Specifications, Contracts, Estimates, Details of Superintendence.

Engineering.—Stability of Structures; Stress; Strength and Stiffness of Girders, Pillars, etc.; Foundations, Walls, Roofs; Building Materials.

Mechanics.—Principles of Statics; Rankine's Applied Mechanics.

Shop-Work.—Practice in Testing Materials, Ventilation, Warming etc.; Framing in Wood and Iron.

Drawing.—Designing Architectural Ornaments; Architecture; Landscape; Designs for Particular Structures; Drawing from Memory.

Political Economy.—Bowen, Mill, Rogers, Carey; (Recitations and Lectures).

Themes.

English.—Graduation Thesis.

VI.—COURSE IN SCIENCE AND LITERAT

JUNIOR YEAR.

FIRST TERM.

Rhetoric.—Recitations and Lectures; Study of Anglo-Saxon and Old English.

Practical Chemistry.—Qualitative Analysis.

English Composition.

ELECTIVES.

Students must elect from the following list of studies, work to the amount of twelve exercises per week.

Mathematics.—Differential Calculus.

Physics.—Lectures and Laboratory Practice; Kohlrausch, Pickering.

Descriptive Geometry.—And its Applications.

Botany.—Lectures, Recitations and Field Work.

Blowpipe Analysis.—Examination of Minerals.

Mechanical Drawing.—Machine Drawing; Brush Shading.

Free Drawing.—Sketching from Nature; Use of India Ink and Sepia; Study of Design.

Work in the Machine Shop.—French, German.

SECOND TERM.

Logic.—Jevons's Logic.

English Composition.

ELECTIVES.

Students will elect from the following subjects to the amount twelve exercises per week.

Mathematics.—Integral Calculus and its Applications.

Physics.—Continued as first term.

Mechanical Drawing.

Artistic Design.

Practical Chemistry.

French; German.

Shop-Work.

SENIOR YEAR.

FIRST TERM.

Astronomy.—White's Elements.

English Literature.—Shaw's Manual; Taine; Reading of Chaucer, Shakespeare, Spencer, Milton, etc.; Recitations and Lectures.

ELECTIVES.

Students will elect from the following subjects, to the amount of twelve exercises per week.

Mechanics.—Rankine's Applied Mechanics; Recitations and Lectures.

Physics.—Continuation of Study, and Laboratory work.

Metaphysics.—Hamilton; Recitations and Lectures.

Design.—Drawing, Painting and Art study.

Practical Chemistry.—Quantitative Analysis.

Natural History.

Shop-Work.

SECOND TERM.

Political Economy.—Bowen, Rogers, Mill, Carey; Recitations and Lectures.

English Literature.—Continuation of first term's work.

Physiology. Lectures.

Thesis. For Graduation and Degree.

ELECTIVES.

Same subjects as the first term of this year, students elect nine exercises per week.

ACCOMMODATIONS.

It is thought that ample accommodations exist for 200 students in this Department of the University. Each building is fitted up in the most substantial manner, and new appliances and facilities are procured as fast as the want of them is clearly seen.

The Drawing, Lecture, and Laboratory rooms are spacious, well lighted and well ventilated.

CIVIL AND MECHANICAL ENGINEERING.

The School is well fitted with the necessary apparatus for illustrating the principles of Civil and Mechanical Engineering. An extensive collection of Photographs of Bridges, Locomotives, Machines, etc., hang upon the walls of the Lecture and Drawing Rooms; while the Model Room contains models of Bridges, Water-wheels, Roofs, Arches, Girders, Electric Signals, Gauges, etc., and a large number of the more unusual combinations of machinery.

The "Testing Machine," employed by the Illinois & St. Louis Bridge Company, for determining the modulus of elasticity of cement and other building materials, now in possession of the University, is in frequent use by the students. By actual experiments they learn the strength of wood, iron, steel, stone, brick, etc. Students are employed in experiments and investigations where such work can be carried on to their advantage.

The instruction in all branches is given from text-books when practicable, supplemented by lectures and practical work. Great pains is taken to give the best engineering practice, both European and American, and to keep pace with the great advances made on all sides in every department of physical science. Special prominence is given to the use of "graphical methods," which are now so usefully supplementing the processes of computation.

Hence advantage is taken of the excellent opportunities offered in St. Louis and vicinity for the study of applied science. Through the kindness and courtesy of railroad officers, engineers, commissioners, and business men in general, both professors and students have generally had free passage over railroads, on expeditions for scientific purposes; easy access to all engineering works in process of construction, whether bridges or water-works; and ready admission to machine-shops, foundries, rolling-mills, furnaces, and manufactories of all kinds. These visits and expeditions have always proved to be of great value, the tendency of such a combination of study and observation being to train not mere theorizers, but practical, far-seeing business men.

THE COURSE IN MINING AND METALLURGY.

This branch of the Polytechnic School, organized in September 1871, has been in full operation during the last eight years. Its object has been to supply some means for the acquiring of a thorough knowledge of the theory and practice of those operations in mining and metallurgy which are to play such an important part in the development of the resources of our country. It must be evident that few if any, places in the country possess so many and so great advantages for the successful working of such a department as the city of St. Louis—a great and growing commercial and manufacturing center in the midst of and within easy access of nearly all varieties of mining and metallurgical operations.

The studies during the first two years are the same as in other special courses, somewhat general and elementary in character, preparatory to the special work of the course on Mining and Metallurgy, to which the remaining two years are devoted. The plan of instruction includes lectures and recitations on the various subjects pertaining to the course; practical work in the Physical, Chemical and Metallurgical Laboratories; field work in Geology, etc.; projects, estimates and plans for the establishment of mines and metallurgical works; examination of, and reports on, mines and manufacturing establishments.

THE COLLECTIONS,

containing over THIRTEEN THOUSAND SPECIMENS, embrace models of crystals, and specimens illustrating the various minerals and rocks and their associations; ores, coals, petroleum, fire clays, building materials, etc., from many parts of this country and Europe; characteristic fossils of the different geological ages; metallurgical products illustrating the various operations in the treatment of ores by the wet and dry methods. These collections are used to illustrate lectures, etc., and are at all times accessible to the students, so that they may become thoroughly familiar with the character and modes of occurrence of the minerals, rocks and ores, they are likely to meet with in the field, and the various products in metallurgical operations.

COLLECTION OF CASTS.

Through the liberality of a few of our prominent citizens, a fine collection of Casts of Celebrated Fossils has been purchased of Prof. Ward at a cost of \$2,800. and presented to the University. This collection is well known throughout the country as the most valuable of its kind, and forms one of the most attractive features of any museum. It is set up in the Geological Room on the first floor, and at all reasonable hours the room is open to the public.

THE ASSAY LABORATORIES

are kept in full working order, completely furnished with crucible, scorification and cupelling furnaces, and everything necessary for practical work in the assay of ores of lead, silver, gold, iron, tin, etc.; also volumetric apparatus for the assay of silver coin and bullion by the wet methods. The general principles as well as the special methods of assaying are explained in the lecture rooms, and at the same time ores of the various metals exhibited and described. From a large stock of these ores from various parts of the country the students are required to make a large number of assays themselves, under the immediate supervision of the instructor. In the

CHEMICAL LABORATORIES

a practical course is pursued in connection with lectures on qualitative and quantitative analysis; the students being required to make tests and full analyses of coals, limestones, ores of iron, copper, lead, zinc, nickel, pig-iron, clays, technical products, etc., that they may acquire a practical experience in the chemical examination of the materials and products liable to be met with in practice.

An assistant is in constant attendance upon the students in the assay and metallurgical laboratories, to aid them in the practical work assigned.

VISIT TO MINES, WORKS, ETC.

Every opportunity is afforded the students through the term for visiting and examining the various mines, smelting and

manufacturing establishments in the vicinity. During the Summer vacation they are required to visit some mining or metallurgical district, and, at the opening of the following term, to hand in a journal of travels, with a report of the operations conducted there, illustrated with drawings. Before receiving the degree of Engineer of Mines, they will be required to execute plans or projects for the establishment and working of mines or smelting works under given conditions, with drawings, estimates and written memoirs.

An endeavor is thus made to combine thorough practical with theoretical instruction in this course, and to fit the student for the successful practice of his profession hereafter, and for a field of usefulness in the country at large.

CHEMICAL LABORATORY.

The chemical building contains three work-rooms, besides a Lecture Room, the Professor's Room, and two rooms for storage and apparatus. Besides, two large rooms in the basement of the west wing have been fitted up for Assaying and Industrial Chemistry. Students who propose to become professional chemists spend almost their entire time during their third and fourth years in the Laboratories.

PHYSICAL LABORATORY WORK,

as a feature in education, is becoming a more and more important item in the study of Physics. A large room about forty-two feet square, on the third floor, is appropriated to this use. All the physical apparatus is arranged in cases round the room. Large tables are fitted up for the purpose of enabling the students to perform certain assigned experiments in Mechanics, Pneumatics, Heat, Optics, Acoustics and Electricity. They go to different tables to perform different experiments; and whenever a series of similar experiments are made, the results of observation are compared with the theory by the graphical method of curves. In the junior year the

experiments are of a more elaborate nature, and reductions are made by aid of the method of "least squares." Students are encouraged to perform original experiments, and in all cases great pains is taken to secure carefully written reports of all the work done.

The chief aim in this part of the instruction is, to give the student an insight into the methods and means used in physical investigation.

MANUAL TRAINING.

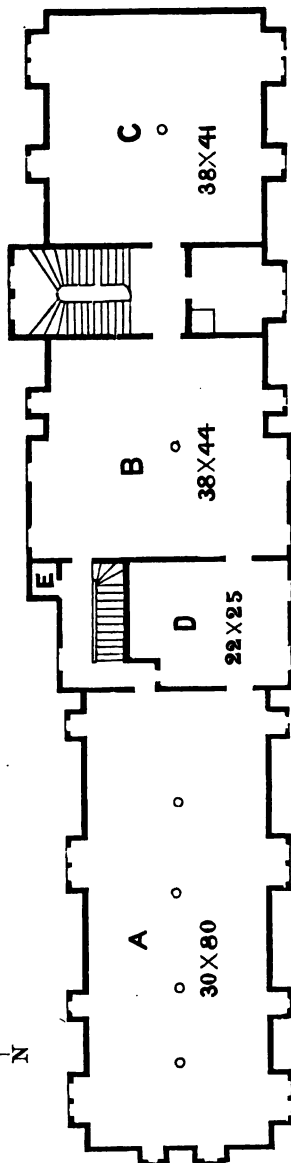
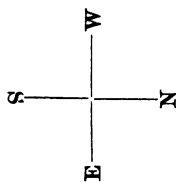
In the Courses of Study as arranged on pages 76—86, the word "shop-work" has been used to cover the systematic course of instruction and practice in the use of the more common hand and machine tools.

It is believed that, to students, without regard to plans for the future, the value of the training which can be got in shop-work, spending only from four to twelve hours per week, is abundantly sufficient to justify the expense of materials, tools and expert teachers.

As at present arranged, no branch of study has been omitted from the theoretical work, in consequence of the addition of the shop-work. This is to be clearly understood. The standard of scholarship has not been lowered. A knowledge of practical matters and the ability to use tools, should supplement, not displace, abstract and theoretical work. Theory and practice must go in hand in hand.

Before the close of the present year the facilities for tool-instruction and practice will be greatly increased. All the shops of the MANUAL TRAINING SCHOOL are to be open to students of the Polytechnic classes, as provided in the Ordinance establishing the school. Full explanation of the theory and method of tool-instruction is given in the "Prospectus of the Manual Training School" to which all interested are referred.

PLAN OF ART DEPARTMENT.



- A*—Painting, Drawing and Designing Room.
B & C—Drawing and Painting Rooms. Collections of Casts and Pictures.
D & E—Private Studios.
E—Elevator.

ART AND DESIGN.

The Art Department of Washington University now affords an opportunity, not only to members of regular classes of the various Departments of the institution, but to special students of Art, for acquiring a knowledge of the laws governing the harmonious arrangement of form and color, as applied to the productions of Art manufacture.

There are so many branches of the Arts of Design peculiarly adapted to the mind and hand of woman, that they seem to fall naturally into her domain. Her lightness of touch and feminine grace, educated by the study of Drawing and the principles of Decorative Design, would give an impulse to taste in the embellishment of home, and gradually bring beauty and refinement in Design into every house.

From the large number who have already taken advantage of the class lectures and lessons given by those in charge of this Department, it is deemed advisable to offer a more extended course, the aim of which shall be the systematic training of all who may desire, in a knowledge of the principles and practice of the Arts of Design.

The course is the result of a careful personal examination of the various Schools of Art and Design, and Industrial Art Schools of Great Britain and France, as well as our own country. It will be seen that a person pursuing such a course, will be well fitted for the work of an architect's assistant, a teacher, or be enabled to enter upon a thorough course of Art study as a profession.

Ladies pursuing a course of study in Art, are not required to work with regular University students, who come to the Department for instruction, but are given a place in a room set apart for the use of special Art students.

Pupils may take any section of the course, either Drawing, Modeling, Ornament, Painting, Design or Wood Carving, but are advised to attain by practice a sufficient power and freedom of execution, to enable them to draw accurately whatever may be placed before them.

Wood Carving has been introduced and will be taught in single or class lessons, as desired. The results of several years'

work in wood in the Cincinnati School of Design, the only school where the practical value of the work has been fully tested, show that it is work specially adapted to women. They have the deftness and accuracy and rapidly acquire the strength and skill necessary for the work. Wood carving is one of the beginnings of Decorative Art with us, and whether taken up as a recreation or as a means of support, is equally satisfactory. Statistics show that of pupils earning money by doing any sort of Art work learned at school a fair proportion come from the carving class. Carving to order proves lucrative, and the demand for trained teachers exceeds the supply.

Since it is becoming a necessity with us that our houses shall be finished and furnished artistically, artistic hand-work of this sort, possessing originality and beauty of design, must have a market value that can be relied upon.

Special instruction will be given to those desiring it, in any of the studies in the course, but persons desiring to fit themselves for teaching, or practical art work, will be required to follow a given course.

To such students a certificate of proficiency will be given at any stage of progress; an Art Diploma to those who complete a course in a special direction. Such certificate or diploma will be given only to those who may pass a satisfactory examination by a committee of competent judges, either of the faculty of the University or others.

In order that those who are fitting for the profession of teaching may become familiar with its duties, the Professor in charge is authorized to appoint the most competent to assist in elementary instruction.

There are two terms in the year—the first commencing the first Monday in October, and ending in February; the second commencing the first Monday after the tenth of February, and continuing throughout the academic year.

Special arrangements may be made as to rates and time of lessons, by applying to the professor in charge.

The Department is under the immediate charge and supervision of Prof. Halsey C. Ives, assisted by competent teachers.

EVENING CLASSES.

During the past two years, free evening classes have been formed, to which have been given lessons in Drawing and Design, and lectures on Art History, and kindred subjects. It is hoped that provision may be made for continuing such classes, as the occupation of many persons is such as to prevent their pursuing a course of study during the day.

All finished work must be left in the school, or if removed by special permission, must be returned before the close of the school year, for final examination by the committee appointed for that purpose.

It is not intended that the Department shall be self-supporting. To make it so would necessitate raising tuition fees to an amount that would place it beyond the means of many persons who find it possible to pursue a course of study at the terms stated.

Aid is solicited, that the fees may be fixed at a much lower rate.

Any person giving to the Department the sum of \$3,000, to be held by the Directors, will be entitled to the privilege of sending a succession of free students during a term of twenty years. When one student's attendance ceases another may be nominated.

THE COURSE OF INSTRUCTION

Pursued in the Drawing Department during the past year by students of the Polytechnic School, is as follows:

The elementary work is based upon the belief that a system commencing with geometric forms, will cultivate a habit of accuracy, which naturally leads the student to rely upon his judgment, and enables him to act as his own critic.

In the first stage, organic forms—animals, plants, etc., are not employed as models. The student is first taught, by having the simplest exercises placed before him, the right method of using his instruments.

Great care and attention is given to each student during this stage, that no bad habits may be formed, which afterwards prove so difficult to eradicate.

When sufficient skill is acquired in the construction of the ordinary problems of plane geometrical drawing, including a knowledge of the practical use of the straight line, circle, and tangent and their direct application to proportion — problems are given in the elementary construction necessary to geometrical pattern drawing and tracery.

This completed, the student begins the representation of simple, solid bodies, by means of plan, elevation and section.

Students are also required to execute similar work *freehand*, (entirely without the aid of mechanical means), upon the black-board and paper, from copies, from memory and from dictation.

Their attention is then directed to plant forms and other objects in nature, from which they make selections of such parts as may be best adapted to a geometrical arrangement, to fill a given space ornamentally.

With the beginning of the Freshman year, freehand drawing from the "round" or solid is practiced, first in outline, then in shading with charcoal. In the first stages of freehand shading, there is but little attempt made at finishing work — the student is urged to gain the power of expressing rapidly a clear idea of the object before him by means of his drawing, rather than to attempt an artistic production.

Instruction in the conventional use of color and the use of the brush in shading, as applied to mechanical and architectural drawing, is taken up at this stage of the work.

Regular students of the Sophomore class use as models, during the time allotted to freehand work, parts of machinery, casts of ornaments, etc. During the first term they spend some time in sketching from nature. The time devoted to Mechanical Drawing is spent in line and brush shading, lettering, etc.

During the second term, the time is devoted to Machinery, Architectural and Map Drawing. During the past year a course in sepia painting has been partly introduced in the work of this class.

The Junior class in Civil Engineering work from models, arches, etc., finishing with pen and ink, India ink with brush, and also practice sepia and water color painting.

The Senior class in Civil Engineering devote the time allotted to drawing, in finishing drawings from actual measurement and

the designing of structures. The drawings are executed with pen and ink, brush shading in sepia or India ink and water color.

The course pursued by the classes in Mining Engineering differs only in the objects used as models. The Juniors execute drawings of profiles, crystals, plans and sections of mines and mining machinery, furnaces, apparatus and machinery of smelting works. Seniors execute similar work from actual measurement and constructions.

ELEVATOR.

For the use of ladies and visitors to the fourth floor, an elevator driven by hydraulic pressure has been built, and is ready for use at all times.

EXAMINATIONS AND THESES.

The Examinations in the Polytechnic School are frequent and rigid, and, whenever it is possible, in writing. Upon them chiefly the teachers rely for information of the progress of the students. No promotions to higher classes are made except upon conclusive evidence that the antecedent subjects have been well mastered. Reports of the standing of individual students will be made by the Dean of the Faculty to parents or guardians, if such are requested.

Every applicant for a degree, besides passing satisfactorily all his examinations, must present a Thesis—an original essay, review, or investigation—upon some subject, professional or otherwise, connected with the course of study he has followed. The Thesis must be accompanied with all necessary general and detailed drawings. All such Theses and drawings are left in charge of the University.

The object of requiring a Thesis is mainly to secure evidence of the student's fitness to receive a degree; consequently a high standard of excellence is rigidly adhered to. Incidentally the Theses furnish much valuable information to be used at the University by professional students, graduates, and all engaged in professional work.

DEGREES.

No student will be recommended for a degree who has not passed all his examinations successfully, and handed in such

projects or theses as may be required. The diploma fee is three dollars, payable in advance. The degrees corresponding to the six Courses of Study are:

- I. The Degree of "Civil Engineer."
- II. The Degree of "Mechanical Engineer."
- III. The Degree of "Chemist."
- IV. The Degree of "Engineer of Mines."
- V. The Degree of "Architect."
- VI. The Degree of "Bachelor of Philosophy."

TUITION.

Tuition is \$50 per term of twenty weeks, payable in advance if required, and always before the middle of the term. Students in Chemistry will be supplied with apparatus and chemicals at the standard prices, and will be credited with all they return in good order.

DISCIPLINE.

The School is encumbered by very few rules. Regularity, promptness, a cheerful compliance with every detail of the daily programme, and the manners and habits of good society, are expected of every student. The records of scholarship are based upon scholarship alone. Misdemeanors of whatever sort are met with reproof or censure; but cases of persistent neglect of any duty, or flagrant misbehavior, require temporary suspension, or complete dismissal from the University.

BOARD AND LODGING.

Students living at a distance from the University have no difficulty in securing rooms and board at reasonable rates. Students wishing accommodations, and housekeepers wishing boarders, are requested to communicate with the Dean.

EXPENSES.

The minimum expenses of maintaining a student in this school one year is about as follows:

Tuition.....	\$100 00
Rent of Room.....	20 00
Board, Fuel and Washing, at \$4 per week.....	160 00
Books, Instruments, etc.....	30 00
Total.....	<hr/> \$310 00

SCHOLARSHIPS.

Students of limited means will notice the provisions of the "Western Sanitary Commission Free Scholarships," "Sustentation Fund," and of other Scholarships on pages 62 and 63.

UNIVERSITY LECTURES.

A LECTURE ENDOWMENT FUND amounting to twenty-seven thousand dollars (\$27,000), has recently been created by one of the early friends of the University, Mr. WILLIAM HENRY SMITH, now a resident of Alton, Ills. It was given without any restrictions, except that the fund should be increased, if practicable, by accruing interest, to \$30,000, which has been accomplished and that no part of the principal should be expended. The income is used for the support of lectures, with a view to the advancement of the interests of the University and the benefit of the public. The lectures will be free, so far as practicable, but an admission fee will be charged when circumstances require.

In accordance with the purposes of this fund, courses of lectures upon German and French Literature, History, Art, Education, Astronomy, Electricity, Mineralogy, Botany, and other suitable subjects, are delivered every year, and will be announced from time to time.

Some of these lectures are given in the Hall of the University, to the general public; others, which may be called "*Class-Room*" or "*Instruction Lectures*," are given in smaller rooms, or Laboratories, to classes limited in number according to the nature of the subject treated, and are designed to furnish

to persons not connected with the University instruction somewhat similar to that given in the Class Rooms of the College and Polytechnic school.

LIBRARY.

Through the liberality of a number of citizens of St. Louis, an arrangement has been made by which the privilege of using the Mercantile Library has been extended, under prescribed conditions, to such members of the University as may be designated by the Chancellor.

A few Life Memberships in the Public School Library, were recently presented to the University for the use of students.

GYMNASIUM.

A gymnasium for the use of the students of the College and the Polytechnic School stands on the grounds of the University. It contains a bowling-alley and the ordinary apparatus for Gynmnastic exercises. A competent instructor gives regular training to the classes.

OBSERVATORY.

The Astronomical Obsesrvatory is on the University Grounds, at the corner of Eighteenth and St. Charles Streets.

The instruments are as follows:

1. A Fitz Equatorial of 6 inches aperture, with driving clock. For general observations.

2. A Solar Micrometer attachment for measuring distance and position angle of double stars, &c.

3. A Portable Transit of three inches perture. For time observations.

5. A Fine "Dent" Chronometer, keeping mean solar time.

7. A Sextant, by G. W. Blunt & Co., of New York City.

The appointments of the Observatory are used at present in giving instruction to the classes in Astronomy; in general observations of the moon and planets; and in time observations for regulating the standard time system of Washington University.

EVENING SCHOOL.

AT THE

POLYTECHNIC BUILDING,

Cor. Seventh and Chestnut Sts.

TEACHERS.

WM. D. BUTLER, *Principal.*

G. E. SEYMOUR, *Assistant.*

232 232 232

R. J. DELANO, *Assistant.*

WILLIAM DEUTCH, *Assistant.*

H. W. PRENTIS, *Assistant.*

T. R. VICKROY, *Assistant.*

AMELIA C. FRUEHTE, *Assistant.*

H. E. KNOX, *Assistant.*

ELEMENTARY SCHOOL.

OF THE

O'FALLON POLYTECHNIC INSTITUTE.

In its early action the O'Fallon Polytechnic Institute, as a department of the University, established free evening schools in St. Louis, to meet the pressing demands of the community for general education, although its original design was merely to furnish technological instruction. Under the pressure of an existing need, it then extended educational facilities, through its evening schools, to all worthy applicants, in every branch of study, trusting to the Public School Board to relieve it finally, of those studies which more appropriately belong to the common school system. In the course of a few years that Board entered upon the work with efficiency, assuming for a time one-half, and subsequently the whole expense of the enterprise. The free evening schools of St. Louis are the direct outgrowth of the O'Fallon Polytechnic Institute

During the year 1868 a fuller and permanent arrangement was made with the Public School Board, whereby the elemental and popular technological studies are taught free to all applicants. The school so established is known as the "O'Fallon Polytechnic School," and is one branch of the O'Fallon Polytechnic Institute.

The O'Fallon Polytechnic Institute, therefore, as a department of the University, has a two-fold organization: the higher or more advanced studies being taught in the University buildings, corner of Washington avenue and Seventeenth street, and the more elemental at the Polytechnic building, corner of Chestnut and Seventh streets

The University instruction is under the exclusive direction and management of the Directors and Faculty of the University

and, as a school of pure and applied science, covers the whole scientific work of the University, including such elemental instruction as circumstances may require. It is daily becoming a more prominent feature of the University, and a building has been erected adjoining the College building on Washington avenue, at a cost, including the ground and apparatus, of \$100,000, for its permanent use. The Evening School is under the immediate supervision and control of the Board of Public Schools of St. Louis.

There are no fees for admission to the evening classes, inasmuch as, through the liberality of some of our citizens, the University has been enabled, by a permanent agreement with the Public School Board, to secure perpetually free instruction, enlarged class-room facilities, and increased library and other privileges, to all the pupils of the O'Fallon Polytechnic School, "with special reference to the wants of those engaged in, or preparing for, mechanical or other industrial pursuits."

The Institute, therefore, is now on a firm and enduring basis; effecting, even beyond the most sanguine expectations of its patrons, the early and permanent success of their beneficent views. Every apprentice, journeyman, clerk, or other person, who wishes instruction in the elements of technology, as needed for the workshop, mines, etc., can now have the same, free of charge, in the Polytechnic School, established for the purpose, and may secure for himself library and advanced educational facilities in one or the other divisions of the Institute.

There has been no change in the plan of the Institute, but its efficiency is increased. Working in cordial co-operation, the University and the Board of Public Schools have, by a permanent contract, given to the common schools higher elevation and more enlarged usefulness, and to the University itself a closer connection with the educational needs of the times. The title of the Polytechnic Building is vested in the School Board, and that edifice is devoted to popular education—the cause for the promotion of which, in a somewhat limited sense, it was erected. All who were originally to have the benefit thereof are still included and provided for within the existing organization; and thus they have obtained at once what otherwise might have been postponed for an indefinite period, through lack of means.

The AMES LIBRARY remains as before, except that by its connection with the Public School Library it has more than two-fold its former advantages. It will continue to bear the name of one who, in his sincere devotion to the work of educating properly the laboring classes, furnished means for effecting the end—a name which, with that of O'Fallon, will ever be associated with education in America, in every department thereof, from the common schools to the higher walks of University culture.

THE COURSE OF STUDY

in the Evening School includes the following subjects:

German-English,	Geometry,
English-German,	Trigonometry,
English Grammar,	Nat. Philosophy,
Arithmetic,	Drawing,
Algebra,	Book-keeping.

These are actually taught, and others are contemplated whenever any sufficient number of pupils desire them.

THE TERM

has been fixed by the Board for five months, or eighty evenings; the sessions last from 7 to 9 o'clock, and are held on Monday, Tuesday, Thursday and Friday evenings. The school is open to all persons engaged in some useful employment during the day-time, who can pass the requisite examination in Arithmetic. The most advanced pupils from the Public Evening Schools are sent to the Polytechnic School for examination.

The number of pupils attending the term of 1879-80 is 186.

V-LAW SCHOOL.

FACULTY.

WM. G. ELIOT, D.D., *Chancellor.*

PROFESSORS AND LECTURERS.

SAMUEL TREAT, LL.D., (U. S. District Judge, East. Dist. of Missouri), *Constitutional and International Law; Jurisdiction and Practice U. S. Courts.*

GEORGE A. MADILL, A. M., *Real Property Law.*

CHESTER H. KRUM, A. M., *Pleading, Practice and Evidence; Torts and Domestic Relations.*

GUSTAVUS A. FINKELNBURG, A. M., *Contracts and Commercial Law.*

ALBERT TODD, A. M., *Lecturer on Conveyancing.*

GEORGE W. CLINE, A. M., *Lecturer on Criminal Law.*

HENRY HITCHCOCK, LL.D., *Dean of Law Faculty; Constitutional and Municipal Law and Equity Jurisprudence.*

ADVISORY AND EXAMINING BOARD.

SAMUEL F. MILLER, Justice of the U. S. Supreme Court,
President.

GEORGE W. McCRARY, U. S. Circuit Judge.

WM. B. NAPTON, Justice of Supreme Court of Missouri.

DAVID WAGNER, late Justice of Supreme Court of Missouri.

J. D. S. DRYDEN, late Justice of Supreme Court of Missouri.

E. A. LEWIS, Presiding Judge of St. Louis Court of Appeals.

R. A. BAKEWELL, Judge of St. Louis Court of Appeals.

C. S. HAYDEN, " " " "

JAMES J. LINDLEY, Judge of St. Louis Circuit Court.

JOHN WICKHAM, " " " "

AMOS W. THAYER, " " " "

ELMER B. ADAMS, " " " "

WILBUR F. BOYLE, " " " "

JOHN R. SHEPLEY, JAS. O. BROADHEAD,

EDWARD C. KEHR, ROD'K E. ROMBAUER,

JOHN W. NOBLE, HORATIO M. JONES,

JAMES TAUSSIG, ARBA N. CRANE,

JOHN D. POPE, LEVERETT BELL.

STUDENTS.

SENIOR CLASS.

NAMES.	RESIDENCE.
Bowen, Jones Terrell.....	Navasota, Texas.
Bradley, Lewis Marion.....	Murphysboro, Illinois.
Clayton, Clarence Winslow.....	St. Louis, Mo.
Crow, Edward Coke.....	Carthage, Mo.
Delaney, Thomas Jefferson.....	North Springfield, Mo.
Elliot, Edward Cranch.....	St. Louis, Mo.
Fishback, Charles Fremont.....	Leadville, Colorado.
Gosney, Ezra Seymour.....	Richmond, Mo.
Heckelmann, Otto Frank.....	St. Louis, Mo.
Hereford, James Edwards.....	Ferguson, Mo.
Holcombe, Edwin Russell.....	St. Paul, Minnesota.
January, Machir Thomas.....	Ferguson Station, Mo.
Kortjohn, Henry.....	St. Louis, Mo.
Lewis, John Anderson.....	Glencoe, Mo.
Loomis, Henry Bradford.....	Boston, Mass.
McCampbell, Edwin Attee.....	Corpus Christi, Texas.
McNulty, George Francis.....	Alton, Illinois.
Otto, Carl.....	St. Louis, Mo.
Paige, Howe.....	Rushville, Illinois.
Perkins, Frederick Wellington.....	Kansas City, Mo.
Plant, Richmond.....	St. Louis, Mo.
Preston, George Hyde.....	St. Louis, Mo.
Rodgers, Hickman Price.....	St. Louis, Mo.
Smith, Eleneious.....	St. Louis, Mo.
Strattan, Charles Taylor.....	Mt. Vernon, Illinois.
Wertheimer, Benjamin Joseph.....	St. Louis, Mo.
Whittier, James Clark.....	St. Louis, Mo.
Wolff, Edward Bates.....	St. Louis, Mo.
Wurdeman, Gustavus Adolphus.....	St. Louis, Mo.

Seniors, 29.

JUNIOR CLASS.

NAMES.	RESIDENCE.
Armour, Josiah Andrew	Shipman, Ill.
Barnett, Schuyler Retallack	Pittsburg, Pa.
Bass, Simon Stern	Baltimore, Md.
Beall, Wilber Noel	St. Louis, Mo.
Blesse, Frederick Victor	St. Charles, Mo.
Bradshaw, William Lewis	Lafayette, Oregon.
Brandt, Nathan Wardner	Montgomery City, Mo.
Briggs, David Jackson	Armstrong, Mo.
Duggan, Andrew	St. Louis, Mo.
Dyer, Trusten Polk	St. Louis, Mo.
Farish, John Hamilton	St. Louis, Mo.
Gerhart, Frank Henry	St. Louis, Mo.
Goodlett, William Campbell	Brazoria, Texas.
Hall, Charles	St. Louis, Mo.
Hitchcock, Henry, Jr.	St. Louis, Mo.
Hobein, Frank Anthony	St. Louis, Mo.
Huber, Louis	St. Louis, Mo.
Hughes, John Wilton	near Hillsboro, Ohio.
Keys, John Austin	Zollarsville, Pa.
Kleinschmidt, Charles Henry	St. Louis, Mo.
Lindsay, Frank Pierce	Sharpsville, Ind.
Lockwood, George Robinson	St. Louis, Mo.
Markoe, William Francis	St. Paul, Minn.
Marston, Edgar Lewis	St. Louis, Mo.
Moore, Albert Joseph	New Madrid, Mo.
McLean, James Stafford	Washington, Mo.
McNamee, George Thomas	La Barque, Mo.
Nichols, Charles Elbridge	Denver, Colorado.
Peabody, Francis Downing	Lee County, Ala.
Phillips, William Magruder	Leavenworth, Kansas.
Pillsbury, Arthur Judson	Manhattan, Kan.
Roberson, Thomas Albion	Arcadia, Mo.
Robert, Edward Scott	St. Louis, Mo.
Rutledge, William Askins	St. Louis, Mo.
Shipman, Oliver Taylor	Hilo, Sandwich Islands.
Smith, James William	Williamstown, Ky.
Stanton, Chapel Quillian	Fairmount, Ga.

NAMES.	RESIDENCE.
Thomas, George Cummings.....	St. Louis, Mo.
Thompson, William.....	Carthage, Mo.
Todd, Wilson Renwick.....	Denver, Colorado.
Vest, Thomas Adolphus.....	Greenville, Ill.
Wagstaff, Flora Torrey.....	Paola, Kan.
Wickham, William Fanning.....	St. Louis, Mo.
Williams, Robert Pulliam.....	Buena Vista, Miss.
Winkler, Julius.....	Summerfield, Ill.
Winston, George Fackler.	Platte County, Mo.
Zachritz, William.....	St. Louis, Mo.
Juniors, 48.	

The Law Department of Washington University (also known as the *St. Louis Law School*) was formally opened on Wednesday, 16th October, 1867, on which occasion an Inaugural Discourse was delivered by Hon. Samuel Treat.

The establishment of such a School was not only part of the necessary development of the University, but was deemed peculiarly appropriate in a great and growing city, offering in the number, variety, and importance of the questions daily adjudicated in its tribunals, unsurpassed advantages for combining practical instruction with theoretic study of the law. During nine months in the year, besides the ordinary municipal and inferior courts, are in almost uninterrupted session the Circuit and District Courts of the United States, taking cognizance of questions in Admiralty, Revenue, and Bankrupt Law, besides causes at Common Law and in Equity; also the Circuit and Criminal Courts of the State, and the St. Louis Court of Appeals; in one or other of which are constantly illustrated the learning and practice of every department of American jurisprudence.

COURSE OF STUDY.

The course of study is designed to prepare young men, to a degree far above the ordinary standard of admission to the bar, for the practice of the profession. It embraces instruction in the principles of Constitutional Law, the Jurisdiction and Prac-

tice of United States Courts, Real Property Law, (including a special course of lectures on Conveyancing), Equity Jurisprudence, Evidence, Pleading and Practice (at Common Law, in Equity, and under the Code) Mercantile Law and Contracts, Corporations, Insurance, Domestic Relations, Torts, and Criminal Jurisprudence.

All the members of the Faculty have long been, and now are, engaged on the Bench or at the Bar in the daily application of legal principles.

Instruction is given by daily examinations upon assigned portions of standard treatises, as well as by lectures upon practical topics. Experience fully confirms the superiority of the former as the best method of testing the student's actual acquirements, while encouraging the thorough discussion of principles.

Moot Courts are held weekly during the term by the Professors successively, for practice in the conduct of causes and discussion of legal principles. Each student is required in his turn to act as counsel and to prepare briefs.

The Law Library, for use of which no extra charge is made, consists of upwards of 3,000 volumes, selected with great care, and including more than two hundred extra copies of the text-books in use, and is open to the students throughout every day and evening, except on Sunday.

The complete course for the degree of LL. B. includes two annual terms, each of which (excluding the recess of two weeks at Christmas) occupies seven months in continuous study, beginning on the Wednesday nearest October 15th, of each year.

It is the single aim of the Law Faculty, and of the Directors of Washington University, to make this Law School a true School of Jurisprudence, to which none shall be disposed to come except those who earnestly seek a thorough elementary knowledge of the law,—and from which none who may come with that purpose shall go away disappointed.

EXAMINATIONS.

It is believed that whatever degree of usefulness or reputation has been attained by this Law School has resulted largely from the fact, widely known, that its examinations for degrees have been at the same time uniformly impartial and unusually severe.

By an Act of the General Assembly of Missouri, approved March 5, 1874, the holder of a diploma from the St. Louis Law School is entitled to admission to the bar in any of the Courts of Missouri, upon simple motion.* But the examination which must be successfully passed to obtain this diploma is not only much more thorough than the usual examination for admission to the bar. but, it is believed, is not excelled in its severity as a test of legal knowledge by similar examinations in any American law school.

The regular members of each class will be examined during the first week in June upon the studies of the term. The examination of the Junior Class will be conducted by the Faculty; that of the Senior Class for the degree of LL. B., upon questions prepared by the Committee of Examiners for the current year. Only upon the written recommendation of the examiners is a degree granted by the University.

Members of the Junior Class passing the examination satisfactorily, and having attended the lectures during the term with the required regularity, will be entitled as of course to enter the Senior Class at the beginning of the next term. Those failing to pass the same may apply to be admitted to the Senior Class at the examination in October.

All examinations are upon written or printed questions, without reference to text books or other assistance, and under the supervision of one or more members of the Faculty.

TEXT BOOKS AND LECTURES.

The following text books will be used by the Junior Class during 1880-81: Pomeroy's Municipal Law, Bishop on Con-

* Since the present Revised Statutes of Missouri took effect, on Nov. 1, 1878, it has been decided by the Courts that this privilege is not repealed by the new provisions of the Act concerning Attorneys at Law. All other candidates for admission to the Bar are now required to be publicly examined in open Court.

tracts, Story on Bills, on Promissory Notes and on Agency, Parsons on Partnership, Bigelow on Torts, Stephen on Pleading (Tyler's Edition), and Washburn on Real Property, Vol. I.

The Senior Class, during 1880-81, will use the following text books: Washburn on Real Property, Story on Sales, on Bailments, and Story or Mitford on Equity Pleading; Greenleaf on Evidence, Bispham's Equity, Field on Corporations, Schouler on Domestic Relations, and May on Fire and Life Insurance. Other works will be recommended during the term for parallel reading.

Courses of lectures, independently of text books, will be delivered during the term, as follows:

By Prof. KRUM, on Pleading and Practice under the Code; by Prof. TODD, on Practical Conveyancing; by Prof. CLINE, on the Principles and Practice of Criminal law; upon Successions, Administration of Estates and Drafting and Construction of Wills, by Prof. HITCHCOCK; and by Judge TREAT, to such extent as his official duties will permit, on International and Constitutional Law, and Jurisdiction and Practice of United States Courts.

Arrangements have been made with the well-known firm of F. H. Thomas & Co., 208 South Fourth street, St. Louis, for supplying students with law books at a considerable discount from usual prices. The Law School Library contains a number of copies of each of the several text books, which are free to the use of the students in the Library room. It is, however, advisable for each student to possess the text books in use: the cost of which is about \$40 to \$45 for each class.

TERMS OF ADMISSION.

No person will be admitted to either class as a regular member except at the beginning of the term in October; applicants for the Senior Class being also required to pass the examination below referred to. Applicants for the Junior Class must be at least 19 years of age and for the Senior Class at least 20 years of age. Regular members only will be entitled to be examined at the end of the term, or to receive a certificate of attendance, or to compete for the prize essay or the degree of LL. B.

Candidates for the Junior Class will furnish satisfactory evidence of good moral character and standing, and of having received a good English education. It is strongly recommended that before entering they shall have read carefully the first three books of Blackstone's Commentaries.

Candidates for the Senior Class, besides the foregoing, will be required to pass a satisfactory examination upon the text books used (see preceding page) during Junior Year. Such examination will be held on Friday, October 8th, 1880, at the Law School, 1417 Lucas Place,—and at no other time. No one will be admitted a regular member of the Senior Class except upon successfully passing this examination; nor will any certificate of attainments, or previous study or attendance elsewhere, be accepted in lieu thereof.

But any person of good moral character and standing, not being less than 19 years of age, may attend the lectures of either class upon entering and being enrolled in such class at any time before the Christmas recess, paying the regular tuition fee for the term, and engaging to comply with the current regulations of the Law School. Such enrollment will entitle him to the privileges of the library and to attend all lectures and other exercises in both classes, but not to be examined, nor to receive a certificate of attendance, nor to compete for a prize essay or degree.

Applicants for the degree of LL. B. must, in every case, have been admitted as regular members of the Senior Class, at the beginning of the term, and must also have attended the Senior Lectures during the entire term with the prescribed regularity, otherwise they will not be admitted to compete for a degree. They will also announce themselves as such, in writing, to the Dean before the 1st day of February, and on or before the 1st day of May will deliver to him an original thesis upon some legal subject approved by the Faculty. They will also attend the examination for degrees held during the first week in June, if otherwise qualified by age and regularity of attendance. But as the degree of LL. B. conferred by this University entitles the holder to admission to the bar both of the State and United States courts, it will not be granted, except upon the most satisfactory evidence of actual proficiency, nor to any per-

son who will not have attained the age of 21 years on or before the 1st of October following, at the latest.

The term fee for attendance in either class will be \$80, payable in every case in advance. There are no extra charges of any kind, and the members of either class are free to attend all lectures and exercises of both: but no student can at the same time be a regular member of more than one class. No reduction will be made from the term fee, nor any part of it returned for absence from any cause. Class tickets are in no case transferable.

Good board and lodging can readily be obtained in the city at from \$4 to \$6 per week. This expense may be lessened to students rooming together.

The regular hours for the daily lectures are from 4 to 5 P. M., and 5 to 6 P. M., and three times a week from 8:45 to 9:45 A. M., except on Saturdays, when no lectures or exercises are held. Moot courts are held on the evening of Friday in each week,

SCHOLARSHIPS—PRIZE ESSAY.

In pursuance of the terms of a donation of \$6,000, heretofore made to the University for the benefit of the Law School, *six free scholarships*, for young men in straitened circumstances, are established in this Department; also an annual prize of \$50 in money for the best thesis upon some legal topic, to be publicly awarded at the Law Commencement.

As far as practicable, these scholarships will be equally divided between the two classes,—depending upon the number and success of the candidates for scholarships in either class.

Applicants for *free scholarships* should apply in person or by letter to the Dean on or before the 15th day of September, furnishing written testimonials of at least two respectable persons to the satisfaction of the Faculty—

1. That the circumstances of the applicant are such as to make him deserving of this assistance:
2. That the applicant is of good character and standing.

The applicant must have received a good English education, and the certificate of Professor SNOW, of the College, to this effect will be required.

Applicants for the Senior Scholarships, in addition to the above, will be required to pass a strict examination upon all the studies of the preceding Junior year.

As the applicants for the *free scholarships* are usually far in excess of the number that can be given, no student will hereafter have the benefit of such scholarship for more than one term: and, other things being equal, preference will be given to applications in the order of their being filed with the Dean.

Competition for the prize referred to is confined to the regular members of the graduating class in each year, under regulations announced at the opening of the term.

CALENDAR OF 1880-81.

Applications for free scholarships received and filed at any time up to September 15, 1880.

Examination for Senior Class, October 8, 1880.

Term opens Wednesday, October 13, 1880. Introductory address at 4 P. M.

Christmas recess from December 18th, 1880, to January 3d, 1881, both inclusive.

For further information address HENRY HITCHCOCK, Dean of Law Faculty, 1417 Lucas Place, *St. Louis, Mo.*

SUMMARY.

THE ACADEMY.....	348
MARY INSTITUTE.....	337
THE COLLEGE.....	24
O'FALLON POLYTECHNIC INSTITUTE.....	49
ELEMENTARY SCHOOL, POLYTECHNIC INSTITUTE.....	186
LAW SCHOOL.....	77
Total.....	1,021

LIST OF GRADUATES.

GRADUATES IN ARTS.

[The following list contains all who received the degree of *Bachelor of Arts*, in the year named. Those who have since received the degree of *Master of Arts* are so marked. Those marked thus (*) have died since graduation.]

1862.

HENRY MARTIN ANDERSON,
CHARLES BRANCH, A.M.,
HENRY BRANCH, A.M.,
REGIS CHAUVENET, A.M., B.S., 1867.
THOMAS LAMB ELIOT, A.M.

1863.

*JOHN PIERRE COLLIER. Dec. 31, 1876.
JOHN TILDEN DAVIS,
WILLIAM RHIND DONALDSON,
HENRY WARE ELIOT,
OSCAR WILLIAM GAUSS,
NATHANIEL GRAY SMITH HART,
CHESTER HARDING KRUM,
THOMAS KEITH SKINKER.

*JAMES STATT'S WATERS. Feb. 28, 1869.

1864.

GEORGE WEBBER CUTTER, A.M.,
CHARLES EDWARD ILLSLEY, A.M.,
JOHN HERAN KERCHEVAL,
JOHN GEORGE DAVID KNIGHT, A.M.,
WILLIAM ELIOT SMITH, A.M.

1865.

HENRY GARDINER BLAKE,
FREDERICK JULIUS CASTLEHUN, A.M.,
WILLIAM C. GLASGOW.

1866.

- *THOMAS FASSETT COLLIER. July 15, 1868.
- *CHARLES FLETCHER HAZARD, Dec. 2, 1877.
- *JOSEPH NORWOOD LITTON. April 11, 1878.
- CHARLES ALONZO TODD, A. M.

1867.

- HUGH CAMPBELL, JR.
- ALEXANDER GILL DONALDSON.
- GEORGE JULIUS ENGELMANN, A. M.

1868.

- LEWIS JACOB BLOCK, A. M.
- FREDERICK MORGAN CRUNDEN, A. M.
- HARVEY HALE DELANO.
- SAMUEL GEORGE FENBY.

1869.

- VERNON WESLEY KNAPP.
- CHARLES MANNING LITTON.
- FRANK CHARLTON STONE.

1870.

- EDWARD EVERS.
- DAVID ROWLAND FRANCIS.
- DAVID GOLDSMITH.
- GEORGE WASHINGTON TAUSSIG, LL.B., 1872.
- LOUIS WILLIAM TEUTERBERG.
- FRED. AUGUSTUS WISLIZENUS, LL.B., 1872.

1871.

- GEORGE WILSON BELCHER.
- SAMUEL HEMPLE CHAUVENET.
- JOHN WILLIAM HOUGH.
- HENRY WILLIAM THIELE, A. M.

1872.

- ELIOT CONWAY JEWETT, C. E., 1874.
- LYNE SHACKLEFORD METCALF, JR.
- WILLIAM FRANCIS PATRICK, E. M., 1874.
- MARTIN HAYWOOD POST.
- ADOLPH MAX SCHEEL.

1873.

WILLIAM JAMES SAMUEL BRYAN,
WILLIAM SAMUEL CURTIS,
JOHN WEBSTER SPARGO.

1874.

ED. MONROE BOWMAN, LL.B., 1876.
AZBY AUGUSTUS CHOUTEAU, LL.B. 1877.
FRED. ERNEST D'OENCH,
FRED. BERTHOLD EWING.
*LUTHER KENNETT FARRAR. Oct. 9, 1874.
WILLIAM RIDG SCHUYLER, A. M.,
GEORGE LINCOLN STEVENS.

1875.

WILLIAM ELIOT CONZELMAN, E.M., 1876.
PAUL FELIX COSTE,
ALLAN CUTHBERT GLASGOW.
FRANK ADAMS GLASGOW.

1876.

GEORGE MOREY BARTLETT,
BEN BLEWETT,
ALBERT STARR BURLINGHAM, A.B., 1877.
CHRISTOPHER RHODES ELIOT.
EDMUND ARTHUR ENGLER, B.Ph., 1877, A. M.,
1879.

WILLIAM CHRISTY FARRAR,
ADA CALISTA FISHER,
MARY JOSEPHINE RYCHLICKI, A. M.
ALBERT ERASTUS SANDERSON.

1878.

LYMAN WHITNEY ALLEN.
WM. SYLVESTER KAMES.
EDWARD CRANCH ELIOT.
HARRIE EDWIN KNOX.
JOHN BLASDEL SHAPLEIGH.

1879.

WILLIAM CAMPBELL GOODLETT.
WALTER RALEIGH HINCKLEY.
LOUIS HENRY RITTERSKAMP.

GRADUATES IN POLYTECHNIC SCHOOL.

1866.

EDWARD SINGLETON HOLDEN, B.S.

1867.

REGIS CHAUVENET, A.M., B.S.

1870.

THOMAS JEFFERSON CALDWELL, C.E., 1871.
EUGENE HENRY JONES, C.E., 1871.

1871.

WILLIAM FRANCIS KIRCHER, C.E.,
RUDOLPH RITTER, C.E.,
ELLIOTT HINCKLEY WILSON, C.E.

1872.

EMILE RECTOR ABADIE, C.E.
RUFUS JUDAH DELANO, C.E.,
ALBERT FRED. D'OENCH, E.M.

1873.

ROBERT ABELES, C.E.,
ADOLPHUS LOVINGSTON, C.E.,
HUBERT TAUSSIG, C.E.

1874.

WINTHROP BARTLETT, C.E.,
HENRY W. DOUGLASS, C.E.,
MINARD L. HOLMAN, C.E.,
FRANK HOTCHKISS, C.E.,
ELIOT CONWAY JEWETT, A.B., C.E.,
WILLIAM FRANCIS PATRICK, A.B., E.M.

1875.

GEORGE DARRAH BROOKE, C.E.,
GEORGE BURNET, JR., C.E.,
MICHAEL FRANCIS HEALY, B. S.
JOHN O. HOLMAN, C. E.
JAMES D. MCKEE, C. E.
CHARLES M. MORSE, E. M.

1876.

SAMUEL ALEXANDER BARRON, E.M.
WILLIAM ELIOT CONZELMAN, A.B., E.M.
JACOB FRIEDMAN, CHEMIST,
HERMAN MEISTER, E. M.
VICTOR C. ROEDER, B. S.

1877.

EDMUND ARTHUR ENGLER, A.B., B.Ph.
VICTOR RUTLEDGE GIBSON, E.M.,
GUSTAV MULLER, C.E.
GEORGE HERNDON PEGRAM, C.E.
EDGAR TIFFEN SMITH, C.E.

1878.

HENRY L. BURNET, C. E.
T. R. COUNTRYMAN, E. M.
ALLAN CUTHBERT GLASGOW, A. B., C. E.,
EDWARD H. WESTERMANN, C. E.

1879.

WM. LEWIS BRECKINRIDGE, C.E.,
PHILIP BUEHNER, M.E.,
DAVID MCKEE, E.M.,
CHAS. WOODBURY MELCHER, M.E.,
NEWTON RICHARD WILSON, E.M.

WASHINGTON UNVERSTY.
GRADUATES IN LAW.

1869.

M. DWIGHT COLLIER,
DANIEL DILLON,
JAMES S. GARLAND,
WILLIAM E. HALL.
JOHN H. NICHOLSON,
JOHN P. PLAYER,
GIFFORD S. ROBINSON,
CHARLES H. SEE,
PHILIP SUTHERLIN,
PETER J. TAAFE,
JOSEPH T. TATUM,

1870.

EDWIN F. BAYLEY,
LEWIS E. BEACH,
NATHANIEL C. DRYDEN,
EDWARD P. McCARTY,
WILLIAM F. MARSH,
OTTO W. MEYSENBERG.
RICHARD H. NORTON,
ALFRED A. PAXSON,
WILLIAM T. RICHMOND.

1871.

PHEBE W. COUZINS,
ALEX. N. DEMENIL,
SILAS W. DOOLEY,
HENRY C. HART, JR.,
HENRY C. HOGG,
WM. T. HOUSTON,
FRED. N. JUDSON,
WM. C. KUEFFNER,
FOSTER T. MARTIN,
DAVID MURPHY,
WILLARD A. SMITH,
WM. H. H. WINFIELD.

1872.

WALTER L. CHURCH,
HENRY I. D'ARCY.
DAVID GOLDSMITH,
JOHN J. McCANN,
JOHN L. MAXWELL,
HENRY E. MILLS,
CHARLES NAGEL,
ALBERT NIGGEMAN,
HENRY O'GORMAN,
THOMAS J. ROWE,
LEANDER J. SMITH,
MICHAEL J. SULLIVAN,
GEORGE W. TAUSSIG,
EUGENE C. TITTMAN.
FREDERIC A. WISLIZENUS.

1873.

JAMES L. CARLISLE,
IRENÆUS D. FOULON,
BENJAMIN F. HEDGES,
J. LINN LADD,
MICHAEL J. MURPHY,
JOHN F. O'ROURKE,
BARNETT W. PRESCOTT,
CHARLES G. SINGLETON,
CHARLES E. STARR,
CHARLES F. W. DASSLER,
EDWARD L. GOTTSCHALK,
THEODORE HUNT,
HUGO MUENCH,
SIMON OBERMEYER,
JAMES M. PEARSON,
HENRY CLAY RILEY,
WILLIAM C. SMITH,
HENRY M. TALLMAN,

1874.

AMBROSE D. COUNTRYMAN,
JOHN D. DAVIS,
FRANK HICKS,
CHRISTIAN KOERNER,
F. L. LINTON,
J. B. MCHOSE,
CHARLES NEWMAN,
JOHN J. NOELL,
FRANK W. PEEBLES.

1875.

B. F. CLARK,
WILL. F. EDGAR,
FRANK F. ESPENCHIED,
FRANKLIN B. FERRIS,
R M. FOSTER,
J. HAYWARD,
A. D. JAMESON,
E. C. McDOWELL,
WM. L. MURFREE, JR.,
A. H. PARKER,
JAMES S. REBER,
JOHN C. RICHARDSON,
OTIS W. SCARBOROUGH,
G. A. SCHUTTE,
C. M. SWITZER,
W. H. WARNOCK,
JEAN F. WEBB,

1876.

WILLIAM BELL BAILEY,
WM. LEBRECHT BEYERSDORF,
EDWARD MONROE BOWMAN,
ZENO BLANKS CLARDY,
FREDERICK ADDISON CLINE,
JOHN RAYMOND CUMMINGS,
WILLIAM SAMUEL CURTIS,
JAMES PARISH DAWSON,

WIRT WHEELER ELLIS,
HENRY DODGE ESTABROOK,
FRANK FIELD,
CHARLES JOSEPH HARRIS,
MERRIFIELD WILLIAM HUFF,
JOHN WILLIAM McELHENNY
DANA MANSFIELD,
THOMAS ALOYSIUS RICE,
WILLIAM LOYD STEWART,
LOUIS REUBEN TATUM,
JAY LINN TORREY.

1877.

CHARLES CLAFLIN ALLEN,
GIDEON DAVIS BANTZ.
SAMUEL ADDISON BOWLES.
LOUIS CHAUVENET,
ARTHUR WALLACE CHAMBERLAIN,
AZBY AUGUSTUS CHOUTEAU,
PAUL FELIX COSTE,
ERNEST DAVIS,
GEORGE M. FORSTER,
RICHARD S. HALL.
MICHAEL FRANCIS HEALY,
EDWARD P. LINDLEY,
JAMES PATRICK MAGINN,
ANDREW PRICE
BENJAMIN F. REX,
LORENZO RICHMOND,
ELIJAH E. STONE,
ROBERT TEMPLETON STILLWELL,
WILLIAM BERNARD TEASDALE,
WILLIAM F. WERNSE,
ARCHELAUS M. WOODSON.

1878.

ALBERT J. ARNSTEIN.
JEFFERSON D. BALFOUR.
GEORGE M. BLOCK.

	PAGE.		PAGE.
LAW SCHOOL	105	Civil Engineering	87
Faculty	106	Mining and Metallurgy	88
Advisory and Examining Board	106	Chemical Laboratory	90
Students	107	Physical Laboratory	90
Course of Study	109	School of Art and Design	93
Examinations	111	Manual Education	91
Scholarships	114	Examinations	73-97
Library	110	Degrees	97
Prize Essays	114	Tuition	98
Text-Books and Lectures	111	Boarding and Lodging	98
Terms of Admission	112	Expenses	99
Tuition	114	Scholarships	99
LECTURES	64	Observatory	100
LIBRARY	65-110	SCHOLARSHIPS	65, 99, 114
MARY INSTITUTE	34	STUDENTS in—	
Faculty	36	Academy	18
Students	37	Mary Institute	37
Course of Study	48	College	58
Tuition	56	Polytechnic	70
Board	56	Law School	107
OFFICERS of Government and Instruction	5	SUMMARY	116
ORGANIZATION of the University	15	TUITION in—	
POLYTECHNIC SCHOOL	68	Academy	33
Faculty	68	Mary Institute	56
Students	70	College	67
Admission	72	Polytechnic School	98
Course of Study	74	Law School	114
		UNIVERSITY Professors	7
		VACATION	3, 67